DATA PACKAGE BEAN SHEET

Date: 10-Sep-2010

Decision #: 390808
DP #: (382022)
NON PRIA
Parent DP #:
Submission #: 839741

* * * Registration Information * * *

Registration: 81927-23 - ALLIGARE IMAZAPYR 2 SL

Company: 81927 - ALLIGARE, LLC

Risk Manager: RM 25 - James Tompkins - (703) 305-5697 Room# PY1 S-7337

Risk Manager Reviewer: Wilhelmena Livingston WLIVINGS

Sent Date: 10-Nov-2008 Calculated Due Date: 06-Nov-2008 Edited Due Date:

Type of Registration: Product Registration - Section 3

Action Desc: (676) Product Reregistration Decision;

Ingredients: 128829, 2-(4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-3-pyridinecarboxylic

* * * Data Package Information * * *

Expedite: ○ Yes ● No Date Sent: 10-Sep-2010 Due Back:

DP Ingredient: 128829, 2-(4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-3-pyridinecarboxylic

DP Title: Imazapyr 81927-23 for RD Final Review

CSF Included: ● Yes ○ No Label Included: ● Yes ○ No Parent DP #:

Assigned To	Date In	Date Out	
Organization: RD / HB			Last Possible Science Due Date:
Team Name: RM 25			Science Due Date:
Reviewer Name:			Sub Data Package Due Date:
Contractor Name:			

* * * Studies Sent for Review * * *

No Studies

emailed Janet

* * * Additional Data Package for this Decision * * *

Can be printed on its own page

* * * Data Package Instructions * * *

Jim Tompkins,
Please accept imazapyr 81927-23 for RD Final Review.

Thanks
Wilhelmena

Date: September 1, 2010

Reg. No.: 81927-23
Product Name: Alligare Imazapyr 2 SL
PM Name/Number: Jim Tompkins, PM 25

Primary Reviewer: Judy Loranger Judy Loranger 9/8/10
Secondary Reviewer: Mark Perry MJP

New label or date of RD amended label: No pin-punch date on label, but label states "EPA 20080414"

Formulation Type: Liquid

Active Ingredient Assessed: Isopropylamine salt of Imazapyr/128829

Other ai's in product

Name/PC code:	Reregistration Status or Registration Date:
N/A	N/A

Note to PM:

1) The Risk Management and Implementation Branch V (RMIB V) notes that the label for this product does not include resistance management labeling as described in PR Notice 2001-5. The Agency encourages registrants to add the resistance management grouping symbols and statements to product labels in view of the importance of resistance management to a long-term pest management strategy.

Assessment can be found N:\prb\label\081927/023

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1) Based on toxicity ranking per the acute toxicity review, the First Aid statements should be placed on the label in the following order:

"IF SWALLOWED:...
IF ON SKIN OR CLOTHING:...
IF IN EYES:...
IF INHALED:..."

2) Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

"CAUTION
Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing."

3) Per the acute toxicity review and the RED, the following revisions are needed to the handler PPE section:

-The first sentence of this section should be revised to read "Some materials that are chemical-resistant to this product are made of any waterproof material."

-The glove statement must be revised to read "Chemical-resistant gloves (except for pilots)."

4) Per the RED label table, the text in **bold type** below must be added to the following User Safety Requirements:

"...If no such instructions for washables **exist**, use detergent and hot water..."

5) The spray drift text appearing on the label must be revised to read as specified below (and required in the Imazapyr RED):

"Aerial Applications:
Applicators are required to use a Coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet; Applicators are required to use a Very Coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet; Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.

Applicators are required to use upwind swath displacement.

The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.

Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited.

Ground Boom Applications:
Applicators are required to use a nozzle height below 4 feet above the ground or plant canopy and Coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater.

Applications with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited."

DATE OUT: August 30, 2010

SUBJECT: PRODUCT CHEMISTRY REVIEW OF: TGAI [ ]; MUP []; EUP [x]
BARCODE NO.: 379752 **REG. /FILE SYMBOL NO.:** 81927-23
PRODUCT NAME: Alligare Imazapyr 2 SL
COMPANY NAME: Alligare, LLC **ACTION CODE:** 676

FROM: Nina Simeonova, Chemist
Product Chemistry Team
Risk Management and Implementation Branch V
Product Re-evaluation Division (7508P)

TO: Wilhelnema Livingston, CRM
Risk Management and Implementation Branch V
Product Re-evaluation Division (7508P)

INTRODUCTION:

A Reregistration Eligibility Decision (RED), Case # 3078, was issued in June 2006 for the Technical Grade Active Ingredient (TGAI) Imazapyr (acid or salts). According to the RED the generic data base supporting the reregistration of Imazapyr has been reviewed and found to be substantially complete.

The product Alligare Imazapyr 2 SL, EPA Reg. No. 81927-23 is eligible for reregistration.

In the 8-month response to the Imazapyr RED the registrant submitted a basic and an alternate CSF dated 10/28/08) and a label (not dated). The registrant is citing product chemistry data submitted in EPA for Reg. No. [redacted]

Alligare, LLC requests reregistration of the product Alligare Imazapyr 2 SL, EPA Reg. No. 81927 -23 under FIFRA, Section 4.

FINDINGS:

1. Alligare Imazapyr 2 SL, EPA Reg. 81927--23, is an end-use herbicide containing 27.8 % Isopropyl Salt of Imazapyr as its active ingredient. It is produced as soluble concentrate through a non-integrated process. According to the label claims the product is used in non-cropland areas, in grass pastures, rangelands and for maintenance of wildlife openings.

2. The basic and the alternate CSFs dated 10/28/08 are acceptable. They are filled out correctly and completely. They support the ingredient statement of the label.

3. Comparison of CSFs, labels and other available information (Reg. No. [redacted] vs. Reg. No. 81927-23) indicates that the requested citation of data is acceptable. EPA Reg. No. 81927-23 may rely on all product chemistry data developed with Reg. No. [redacted] to satisfy the product chemistry data requirements. The data submitted for reregistration of EPA [redacted] were reviewed and accepted by PRD/RMIB V under DP Number [redacted] All product chemistry data requirements for the subject product are satisfied.

4. The ingredient statement of the label is acceptable. It is supported by the CSF. It is in compliance with the requirements of 40CFR§156.10(g) and PR Notice 91-2. The product does not possess properties

which require statements in the section "Physical and Chemical Hazards", but PRD does not have any objections about the precautionary statements currently in this section. The content of the section "Storage and Disposal" is in compliance with the requirements of 40CFR§156.10 (i) (2) (ix) and PR Notice 83-3. It appears that the section is revised for compliance with PR Notice 2007-4. PRD defers the acceptability of the section "Storage and Disposal" to RD.

CONCLUSIONS:

The registrant has satisfied the product chemistry data requirements for reregistration of Alligare Imazapyr 2 SL, EPA Reg. 81927-23, through acceptable citation of data.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 20, 2010

MEMORANDUM:

Subject: EPA Reg. No.: 81927-23 Alligare Imazapyr 2 SL
DP Barcode: 379753
Case No.: 3078

From: Jolene Trujillo, Biologist Jolene E Trujillo
Risk Management and Implementation Branch V (7508P)
Pesticide Re-evaluation Division

To: Wilhelmena Livingston, CRM MJP
Risk Management and Implementation Branch V (7508P)
Pesticide Re-evaluation Division

Applicant: Alligare LLC
13 N. 8th Street
Opelika, AL 36801

FORMULATION FROM EPA Reg. No. 81927-23 LABEL:

	% by wt.
Active Ingredient(s):	
Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid).....	27.8%
Other Ingredient(s):	72.2%
Total	100.0%

Product ingredient source information may be entitled to confidential treatment

BACKGROUND: In the 8 month response to the Imazapyr RED, the registrant has submitted acute toxicity studies to support the reregistration of their product, EPA Reg. No. 81927-23. The [redacted]

RECOMMENDATIONS:

- The acute toxicity studies cited are acceptable to support the reregistration of EPA Reg. No. 81927-23.

The acute toxicity profile for EPA Reg. No. 81927-23 is currently:

Acute Oral	III	Cited
Acute Dermal	III	Cited
Acute Inhalation	IV	Cited
Primary Eye	IV	Cited
Primary Dermal	IV	Cited
Skin Sensitization	non sensitizer	Cited

NOTE: The acute toxicity requirements have been satisfied for the subject product.

LABELING:

ID#: 81927-23 Alligare Imazapyr 2 SL

SIGNAL WORD: CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:
Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wear long sleeved shirt and long pants, socks and shoes and chemical resistant gloves (such as any waterproof material, Category A*).

*If Selection Category A gloves does not provide adequate protection for this product, the registrant should indicate a specific glove category from the EPA chemical resistance chart that will provide adequate protection.

FIRST AID:
IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have product container or label with you when calling a poison control center or doctor or going to treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

USER SAFETY RECOMMENDATIONS:
User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DATE OUT: August 30, 2010

SUBJECT: PRODUCT CHEMISTRY REVIEW OF: TGAI [ ]; MUP []; EUP [x]
BARCODE NO.: 379752 **REG. /FILE SYMBOL NO.:** 81927-23
PRODUCT NAME: Alligare Imazapyr 2 SL
COMPANY NAME: Alligare, LLC **ACTION CODE:** 676

FROM: Nina Simeonova, Chemist
Product Chemistry Team
Risk Management and Implementation Branch V
Product Re-evaluation Division (7508P)

TO: Wilhelnema Livingston, CRM
Risk Management and Implementation Branch V
Product Re-evaluation Division (7508P)

INTRODUCTION:

A Reregistration Eligibility Decision (RED), Case # 3078, was issued in June 2006 for the Technical Grade Active Ingredient (TGAI) Imazapyr (acid or salts). According to the RED the generic data base supporting the reregistration of Imazapyr has been reviewed and found to be substantially complete.

The product Alligare Imazapyr 2 SL, EPA Reg. No. 81927-23 is eligible for reregistration.

In the 8-month response to the Imazapyr RED the registrant submitted a basic and an alternate CSF dated 10/28/08) and a label (not dated). The registrant is citing product chemistry data submitted in EPA for Reg. No. [redacted]

Alligare, LLC requests reregistration of the product Alligare Imazapyr 2 SL, EPA Reg. No. 81927 -23 under FIFRA, Section 4.

FINDINGS:

1. Alligare Imazapyr 2 SL, EPA Reg. 81927--23, is an end-use herbicide containing 27.8 % Isopropyl Salt of Imazapyr as its active ingredient. It is produced as soluble concentrate through a non-integrated process. According to the label claims the product is used in non-cropland areas, in grass pastures, rangelands and for maintenance of wildlife openings.

2. The basic and the alternate CSFs dated 10/28/08 are acceptable. They are filled out correctly and completely. They support the ingredient statement of the label.

3. Comparison of CSFs, labels and other available information (Reg. No. [redacted] vs. Reg. No. 81927-23) indicates that the requested citation of data is acceptable. EPA Reg. No. 81927-23 may rely on all product chemistry data developed with Reg. No. [redacted] to satisfy the product chemistry data requirements. The data submitted for reregistration of EPA [redacted] were reviewed and accepted by PRD/RMIB V under DP Number [redacted] All product chemistry data requirements for the subject product are satisfied.

4. The ingredient statement of the label is acceptable. It is supported by the CSF. It is in compliance with the requirements of 40CFR§156.10(g) and PR Notice 91-2. The product does not possess properties

which require statements in the section "Physical and Chemical Hazards", but PRD does not have any objections about the precautionary statements currently in this section. The content of the section "Storage and Disposal" is in compliance with the requirements of 40CFR§156.10 (i) (2) (ix) and PR Notice 83-3. It appears that the section is revised for compliance with PR Notice 2007-4. PRD defers the acceptability of the section "Storage and Disposal" to RD.

CONCLUSIONS:

The registrant has satisfied the product chemistry data requirements for reregistration of Alligare Imazapyr 2 SL, EPA Reg. 81927-23, through acceptable citation of data.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 20, 2010

MEMORANDUM:

Subject: EPA Reg. No.: 81927-23 Alligare Imazapyr 2 SL
DP Barcode: 379753
Case No.: 3078

From: Jolene Trujillo, Biologist Jolene E Trujillo
Risk Management and Implementation Branch V (7508P)
Pesticide Re-evaluation Division

MJP

To: Wilhelmena Livingston, CRM
Risk Management and Implementation Branch V (7508P)
Pesticide Re-evaluation Division

Applicant: Alligare LLC
13 N. 8th Street
Opelika, AL 36801

FORMULATION FROM EPA Reg. No. 81927-23 LABEL:

	% by wt.
Active Ingredient(s):	
Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid).....	27.8%
Other Ingredient(s):	72.2%
Total	100.0%

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have product container or label with you when calling a poison control center or doctor or going to treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

USER SAFETY RECOMMENDATIONS:
User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Form approved. OMB No. 2070-0060, 2070-0057, 2070-0107, 2070-0122, 2070-0164.

EPA

United States
Environmental Protection Agency
Washington, DC 20460

Formulator's Exemption Statement

(40 CFR 152.85)

Applicant's Name and Address	EPA File Symbol/Registration Number
Alligare, LLC 13 N. 8th Street Opelika, AL. 36801	81927-23
	Product Name Alligare Imazapyr 2 SL
	Date of Confidential Statement of Formula *(EPA Form 8570-4)* 10/28/2008

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Imazapyr, isopropylamine salt

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(a)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☑ (A) An accurate Confidential Statement of Formula *(EPA FORM 8570-4)* for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☐ (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Product ingredient source information may be entitled to confidential treatment

Source		
Active Ingredient	Product Name	Registration Number
Imazapyr, isopropylamine salt	[redacted]	[redacted]
Signature	Name and Title	Date
	Janelle Kay, Agent	1/14/10

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 – EPA
Copy 2 - Applicant copy

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
81927-23	J. Stokes	[x] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
Alligare LLC/Imazapyr 2 SL	SRRD	

5. Name and Address of Applicant *(Include ZIP Code)*

Alligare LLC
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

[ ] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [ ] Notification - Explain below.
- [ ] Final printed labels in response to Agency letter dated _____
- [ ] "Me Too" Application.
- [x] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Arsenal (Case No. 3(121; Chemical No. 128829); Imazapyr Product Specific Data Call-In; Submission of 8-Month Response

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt. / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[ ] Label [ ] Container		[ ] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Janelle Kay	Agent	(253) 853-7369

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	4. Typed Name	5. Date
[signature]	Agent	Janelle Kay	11/4/09

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☑ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
81927-23	J. Stokes	☑ None ☐ Restricted
4. Company/Product (Name)	**PM#**	
Alligare LLC/Imazapyr 2 SL	SRRD	

5. Name and Address of Applicant *(Include ZIP Code)*
Alligare LLC
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332
☐ *Check if this is a new address*

6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:
EPA Reg. No. _____
Product Name _____

Section - II

☐ Amendment - Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification - Explain below.
☐ Final printed labels in repsonse to Agency letter dated _____
☐ "Me Too" Application.
☑ Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Arsenal (Case No. 3021; Chemical No. 128829); Imazapyr Product Specific Data Call-In; Submission of 8-Month Response

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify)
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
☐ Label ☐ Container		☐ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☐ Paper glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Janelle Kay	Agent	(253) 853-7369

Certification
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

8. Date Application Received (Stamped)

2. Signature	3. Title	4. Typed Name	5. Date
	Agent	Janelle Kay	11/4/09

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

United States Environmental Protection Agency Washington, D.C. 20460

DATA CALL-IN RESPONSE

OMB Approval 2070-0107
OMB Approval 2070-0057

INSTRUCTIONS: Please type or print in ink. Please read carefully the attached instructions and supply the information requested on this form. Use additional sheet(s) if necessary.

1. Company Name and Address	2. Case # and Name	3. Date and Type of DCI and Number
ALLIGARE, LLC 4110 136TH ST., NW GIG HARBOR, WA 98332	3021 Arsenal (*) Chemical # and Name 128829 2-(4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imi acid with 2-propanamine (1:1)	12-Mar-2008 PRODUCT SPECIFIC ID # PDCI-128829-26853

4. EPA Product Registration	5. I wish to cancel this product registration voluntarily	6. Generic Data		7. Product Specific Data	
		6a. I am claiming a Generic Data Exemption because I obtain the active ingredient from the source EPA registration number listed below.	6b. I agree to satisfy Generic Data requirements as indicated on the attached form entitled "Requirements Status and Registrant's Response."	7a. My product is an MUP and I agree to satisfy the MUP requirements on the attached form entitled "Requirements Status and Registrant's Response."	7b. My product is an EUP and I agree to satisfy the EUP requirements on the attached form entitled "Requirements Status and Registrant's Response."
81927-22		N.A.	N.A.		Y(J)
81927-23		N.A.	N.A.		Y(J)
81927-24		N.A.	N.A.		Y(J)
81927-6		N.A.	N.A.		Y(J)

8. Certification I certify that the statements made on this form and all attachments are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine, imprisonment or both under applicable law.

Signature and Title of Company's Authorized Representative [signature] Agent

9. Date 6/17/08

10. Name of Company Alligare LLC

11. Phone Number 253-853-7369

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

November 4, 2008

COURIER DELIVERY

Julia Stokes
Product Reregistration Branch
Special Review and Reregistration Branch (7508P)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Arsenal (*) (Case No. 3021; Chemical No. 128829)
Submission of Alligare LLC's 8-Month Response to the Imazapyr Product Specific Data Call-In
Imazapyr 2 SL (EPA Reg. No. 81927-23)

Dear Ms. Stokes,

On behalf of Alligare, LLC (Company No. 81927), please find the enclosed 8-month response for the Arsenal (Case No. 3021; Chemical No. 128829) Product Specific Data Call-In for Imazapyr 2 SL (EPA Reg. No. 81927-23). In support of this submission, please find the following documents:

1. Application for Reregistration (EPA Form 8570-1)
2. Two copies (2) of the Basic Confidential Statement of Formula dated October 28, 2008
3. Two copies (2) of the Alternate Formulation #1 Confidential Statement of Formula dated October 28, 2008
4. Formulator's Exemption (EPA Form 8570-27)
5. Five (5) copies of proposed labeling incorporating changes required by the Imazapyr RED
6. A CD containing an electronic version of the label

Please note that this product is a 100% repack of a currently registered product and the Agency Internal Use Data Matrix, Public file copy of the Data Matrix, and the Certification with Respect to Citation of Data are not required and are not enclosed.

Please feel free to contact me (Janelle@PyxisRC.com; (253) 853-7369) if you have any questions or need any additional information.

Sincerely,

Janelle Kay

Enclosures

Elmazapyr 81927-23

ALLIGARE
AMERICA'S VM SPECIALISTS

June 3, 2008

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agent for Alligare, LLC (EPA Company Number 81927), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jay Golz
Vice-President & COO

cc: Pyxis Regulatory Consulting, Inc.

RECEIVED JUL 01 2008

13 N. 8th Street • Opelika, AL 36801 • t: 334.741.9393 • f: 334.741.9395 • 888.ALLIGARE (255.4427) • www.alligarellc.com

6/26/08 mp

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

June 17, 2008

COURIER DELIVERY

Julia Stokes, Chemical Review Manager
Document Processing Desk (DCI/SRRD)
Special Review and Reregistration Branch (7508P)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Arsenal (*) (Case No. 3021; Chemical No. 128829)
Submission of Alligare LLC's 90-day Response to the Imazapyr Product Specific Data Call-In (ID No. PDCI-128829-26853)
Alligare Rotary 2 SL (EPA Reg. No. 81927-6)
Alligare Ecomazapyr 2 SL (EPA Reg. No. 81927-22)
Alligare Imazapyr 2 SL (EPA Reg. No. 81927-23)
Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24)

Dear Ms. Stokes,

On behalf of Alligare LLC, please find the enclosed 90-day response to the Imazapyr Product Specific Data Call-In. In support of this submission, we enclose the Completed Data Call-In Response Form.

Please note that as per the product specific Data Call-In instructions, if the product(s) is a 100% repack of a currently registered product(s), the Requirements Status and Registrant's Response form does not need to be completed and submitted. Alligare LLC's products (EPA Reg. Nos. 81927-6, 81927-22, 81927-23, 81927-24) are 100% repacks of currently registered products; therefore, the Requirements Status and Registrant's Response forms are not enclosed.

Please feel free to contact me if you have any questions or need any additional information.

Sincerely,

Janelle Kay

Enclosures

RECD
JUN 26 2008
PRB

PYXIS REGULATORY CONSULTING, INC.

4110 136th St NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

November 4, 2008

COURIER DELIVERY

Julia Stokes
Product Reregistration Branch
Special Review and Reregistration Branch (7508P)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Arsenal (*) (Case No. 3021; Chemical No. 128829)
Submission of Alligare LLC's 8-Month Response to the Imazapyr Product Specific Data Call-In
Imazapyr 2 SL (EPA Reg. No. 81927-23)

Dear Ms. Stokes,

On behalf of Alligare, LLC (Company No. 81927), please find the enclosed 8-month response for the Arsenal (Case No. 3021; Chemical No. 128829) Product Specific Data Call-In for Imazapyr 2 SL (EPA Reg. No. 81927-23). In support of this submission, please find the following documents:

1. Application for Reregistration (EPA Form 8570-1)
2. Two copies (2) of the Basic Confidential Statement of Formula dated October 28, 2008
3. Two copies (2) of the Alternate Formulation #1 Confidential Statement of Formula dated October 28, 2008
4. Formulator's Exemption (EPA Form 8570-27)
5. Five (5) copies of proposed labeling incorporating changes required by the Imazapyr RED
6. A CD containing an electronic version of the label

Please note that this product is a 100% repack of a currently registered product and the Agency Internal Use Data Matrix, Public file copy of the Data Matrix, and the Certification with Respect to Citation of Data are not required and are not enclosed.

Please feel free to contact me (Janelle@PyxisRC.com; (253) 853-7369) if you have any questions or need any additional information.

Sincerely,

Janelle Kay

Enclosures

MATERIAL TO BE ADDED TO JACKET

REG # 81927-23 1A53

Description: PRN 98-10 changes on PRN 2007-4 changes

check all that apply		
☐	new stamped accepted label	Send to CSC
☐	new CSF	
☒	notification	

Instructions:

Attach this sheet to the top of **ALL** material sent to the file room (both loose paper and new material in jackets). This sheet will be imaged; a clear description will aid in finding material in the e-jacket. Remove staples from all material. If returning loose paper then hold together with a binder or paper clip. CSFs should be placed in the CSF folder (if returning jacket) or covered with a red CBI sheet (if returning loose paper). Material to be returned to file room should be place in the appropriate bin.

Reviewer's Name: Owen Rector Date: _____

Phone: 305 88 95 Division: KD

mcf

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

DEC 30 2008

Mr. Michael Kellogg, Agent,
Pyxis Regulatory Consulting, Inc.
For Alligare, LLC
4110 13th. St. NW
Gig Harbor, WA 98332

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Change (CA State Regulations)
EPA Reg. No. 81927-23
Application Dated December 9, 2008

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 12/09/08 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
81927-23	J. Tompkins	[x] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
Alligare, LLC / Alligare Imazapyr 2 SL	25	

5. Name and Address of Applicant *(Include ZIP Code)*
Alligare, LLC
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

[ ] *Check if this is a new address*

6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

NOTIFICATION

EPA Reg. No. _____

DEC 30 2008

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification - Explain below.
- [ ] Final printed labels in repsonse to Agency letter dated _____
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of minor label revisions per PR Notice 98-10 to facilitate registration in the state of California. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes [x] No	[ ] Yes [x] No	[ ] Yes [x] No	[ ] Metal [x] Plastic [ ] Glass [ ] Paper [ ] Other (Specify)
* Certification must be submitted	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[x] Label [ ] Container	2.5, 30, 250 gallon	[x] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [x] Lithograph / Paper glued / Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Michael Kellogg	Agent	(253) 853-7369

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	
Michael Kellogg	Agent	
4. Typed Name	**5. Date**	
Michael Kellogg	12/9/08	

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

December 9, 2008

COURIER DELIVERY

Jim Tompkins (PM 25)
Document Processing Desk (**NOTIF**)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Alligare, LLC – Alligare Imazapyr 2 SL (EPA Reg. No. 81927-23)
Notification of Minor Label Revisions per PRN 98-10 to Facilitate Registration in the State of California

Dear Mr. Tompkins,

On behalf of Alligare, LLC please find the enclosed notification of minor label revisions to the Alligare Imazapyr 2 SL (EPA Reg. No. 81927-23) labeling to facilitate registration in the State of California. Changes made to the enclosed labeling include the following:

1) Front panel – added the phrase "except in the state of California" to the last sentence of the use site descriptions paragraph at the top of the page.
2) P. 16 – added the phrase "Except in the state of California" to the beginning of the sentence "if temperatures are such that freezing of the spray mixture may occur…"
3) P. 19 – added the phrase "ALL STATES EXCEPT CALIFORNIA" under the label heading "INSTRUCTIONS FOR RANGELAND USE"

In support of this notification submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Alligare Imazapyr 2 SL labeling with changes tracked
3. One (1) copy of the Alligare Imazapyr 2 SL labeling with changes incorporated
4. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

Sincerely,

Michael Kellogg

Enclosures

cc: Jay Golz; Alligare, LLC

ALLIGARE
AMERICA'S VM SPECIALISTS

June 3, 2008

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agent for Alligare, LLC (EPA Company Number 81927), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jay Golz
Vice-President & COO

cc: Pyxis Regulatory Consulting, Inc.

13 N. 8th Street • Opelika, AL 36801 • t: 334.741.9393 • f: 334.741.9395 • 888.ALLIGARE (255.4427) • www.alligarellc.com

Alligare Imazapyr 2 SL

Alligare Imazapyr 2 SL controls undesirable vegetation in non-cropland areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks and under paved surfaces. **Alligare Imazapyr 2 SL** may also be used in grass pastures and rangeland, and for establishing and maintaining wildlife openings, except in the state of California.

ACTIVE INGREDIENT:

Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid)*	27.8%
OTHER INGREDIENTS:	72.2%
TOTAL:	100.0%

*Equivalent to 22.6% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid equivalent per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

FIRST AID	
If swallowed:	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • **DO NOT** induce vomiting unless told to do so by the poison control center or doctor. • **DO NOT** give anything by mouth to an unconscious person.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-424-9300.	

EPA Reg. No. 81927-23

EPA Est. No.

Manufactured For:
Alligare, LLC
13 N. 8th Street
Opelika, AL 36801

NOTIFICATION

DEC 30 2008

Net Contents:

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

Personal Protective Equipment (PPE):
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:
- Long-sleeve shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:
Users Should:
- Wash hands before eating, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Alligare Imazapyr 2 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic and plastic-lined steel containers.

DO NOT mix, store or apply **Alligare Imazapyr 2 SL** or spray solutions of **Alligare Imazapyr 2 SL** in unlined steel (except stainless steel) containers or spray tanks.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Alligare Imazapyr 2 SL should be used only in accordance with recommendations on the label attached to the container. Keep containers closed to avoid spills and contamination.

GENERAL INFORMATION

Alligare Imazapyr 2 SL is an aqueous solution intended to be mixed with water and surfactant(s) for application to non-cropland areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks, including grazed or hayed areas within these sites. **Alligare Imazapyr 2 SL** is also recommended for the release of unimproved Bermudagrass and Bahiagrass. It may also be used beneath certain paved surfaces. Additionally, **Alligare Imazapyr 2 SL** may be used on grass pastures and rangeland, as well as for establishing and maintaining wildlife openings.

When applied either preemergence or postemeregence to weeds, **Alligare Imazapyr 2 SL** will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. **Alligare Imazapyr 2 SL** will provide residual control of labeled weeds which germinate in the treated areas. Postemergence application with a surfactant is the method of choice in most situations, particularly for perennial weeds. For maximum affect, weeds should be growing vigorously at postemergence application and the spray solution should include a surfactant (See **ADJUVANT** Section for recommendations). **Alligare Imazapyr 2 SL** solutions may be broadcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques. In addition, **Alligare Imazapyr 2 SL** may be used for stump and cut stem treatments.

Alligare Imazapyr 2 SL controls vegetation by absorbtion through leaves, stems, and roots, from which it is translocated throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves and necrosis spreads from this point. In perennials, **Alligare Imazapyr 2 SL** is translocated into and kills underground storage tissues to prevent regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species until two weeks after application. Complete kill of plants may not occur for several weeks. Applications of **Alligare Imazapyr 2 SL** are rain-fast one hour after treatment.

When applying **Alligare Imazapyr 2 SL** as a tank mix, follow the more restrictive directions and restrictions on the labels for all products used. Do not tank mix **Alligare Imazapyr 2 SL** with any product that prohibits such mixing.

PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Alligare Imazapyr 2 SL can occasionally affect non-target or untreated plants by root uptake of the herbicide. Injury or loss of non-target plants may result if **Alligare Imazapyr 2 SL** is applied onto or near desirable plants, or to areas where their roots extend, or in areas where treated soil may be washed or moved within their drip line.

IMPORTANT

DO NOT use on food crops. **DO NOT** treat irrigation ditches or water used for irrigation of crops or for domestic purposes. Keep away from fertilizers, insecticides, fungicides and seeds. **DO NOT** drain or flush equipment on or near desirable plants, or onto areas where their roots may extend, or in locations where the chemical may be washed or moved within their drip line. **DO NOT** use on lawns, walks, driveways, tennis courts or similar areas where roots of desirable vegetation may extend and be exposed to potential injury and/or mortality from root uptake of **Alligare Imazapyr 2 SL**. **DO NOT** side trim

desirable vegetation with this product unless severe injury or plant death is acceptable. Exercise precautions to prevent spray drift onto desirable plants.

Clean application equipment immediately after using this product by thoroughly flushing with water.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of **48 hours.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Non-crop weed control is not within the scope of the Worker Protection Standard. See the **GENERAL INFORMATION** section of this label for a description of non-crop sites.

DO NOT enter treated areas without protective clothing until sprays have dried.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may damage sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS**).

Controlling Droplet Size:

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles – use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.)

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing Spray Drift from Aerial Applications: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length – the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation – nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height – without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Broadcast): Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

WEEDS CONTROLLED BY ALLIGARE IMAZAPYR 2 SL

When used as directed, **Alligare Imazapyr 2 SL** provides preemergence or postemergence control with residual control of the weed species listed below. Annual weeds may be controlled by preemergence or postemergence applications of **Alligare Imazapyr 2 SL.** For established biennial and perennial vegetation control, postemergence treatments of **Alligare Imazapyr 2 SL** are recommended. The tables below show broadcast rates and indicate relative weed sensitivity. It is important to consider relative weed sensitivity when preparing low volume spray solutions (See **LOW VOLUME** section of **GROUND APPLICATIONS**), since low volume treatments apply less **Alligare Imazapyr 2 SL** per acre than is shown for the broadcast treatments.

Resistant Biotypes: Some weeds listed below may have naturally-occurring biotypes (plants within a given species that have a slightly different but distinct genetic makeup from other plants of that species) that are not effectively controlled by this and/or other herbicides (Oust®) with the ALS/AHAS enzyme-inhibiting mode of action. If naturally-occurring ALS/AHAS-resistant biotypes are present in an area, **Alligare Imazapyr 2 SL** should be tank-mixed or applied sequentially with a registered herbicide that depends on a different mode of action to ensure control.

GRASSES

Apply 2-3 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Annual bluegrass	*(Poa annua)*	A
Broadleaf signalgrass	*(Brachiaria platyphylla)*	A
Canada bluegrass	*(Poa compressa)*	P
Downy brome	*(Bromus tectorum)*	A
Fescue	*(Festuca* spp.*)*	A/P
Foxtail	*(Setaria* spp.*)*	A
Italian ryegrass	*(Lolium multiflorum)*	A

COMMON NAME	SPECIES	GROWTH HABIT[2]
Johnsongrass	*(Sorghum halepense)*	P
Kentucky bluegrass	*(Poa pratensis)*	P
Lovegrass	*(Eragrostis spp.)*	A/P
Orchardgrass	*(Dactylis glomerata)*	P
Paragrass	*(Brachiaria mutica)*	P
Quackgrass	*(Agropyron repens)*	P
Sandbur	*(Cenchrus spp.)*	A
Sand dropseed	*(Sporobulus cryptandrus)*	P
Smooth brome	*(Bromus inermis)*	P
Vaseygrass	*(Paspalum urvillei)*	P
Wild oats	*(Avena fatua)*	A
Witchgrass	*(Panicum capillare)*	A

Apply 3-4 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Barnyardgrass[3]	*(Echinochloa crus-gali)*	A
Beardgrass	*(Andropogon spp.)*	P
Bluegrass, Annual[3]	*(Poa annua)*	A
Cheat	*(Bromus secalinus)*	A
Crabgrass	*(Digitaria spp.)*	A
Crowfootgrass[3]	*(Dactyloctenium aegyptium)*	A
Fall panicum	*(Panicum dichotomiflorum)*	A
Giant Reed	*(Arundo donax)*	A
Goosegrass	*(Eleusine indica)*	A
Itchgrass[3]	*(Rottboellia exaltata)*	A
Junglerice[3]	*(Echinochloa colonum)*	A
Lovegrass[3]	*(Eragrostis spp.)*	A
Maidencane	*(Panicum hemitomon)*	A
Panicum, Browntop[3]	*(Panicum fasciculatum)*	A
Panicum, Texas[3]	*(Panicum texanum)*	A
Prairie threeawn	*(Aristida oligantha)*	P
Reed canarygrass	*(Phalaris arundinacea)*	P
Sandbur, Field[3]	*(Cenchrus incertus)*	A
Signalgrass[3]	*(Brachiaria spp.)*	A
Torpedograss	*(Panicum repens)*	P
Wild barley	*(Hordeum spp.)*	A
Wooly Cupgrass[3]	*(Erichloa villosa)*	A

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Bahiagrass	*(Paspalum notatum)*	P
Bermudagrass[4]	*(Cynodon dactylon)*	P
Big bluestem	*(Andropogon gerardii)*	P
Cattail	*(Typha spp.)*	P
Cogongrass	*(Imperata cylindrica)*	P
Dallisgrass	*(Paspalum dilatatum)*	P
Feathertop	*(Pennisetum villosum)*	P

COMMON NAME	SPECIES	GROWTH HABIT[2]
Guineagrass	*(Panicum maximum)*	P
Phragmites	*(Phragmites australis)*	P
Prairie cordgrass	*(Spartina pectinata)*	P
Saltgrass[4]	*(Distichlis stricta)*	P
Sand dropseed	*(Sporobolus cryptandrus)*	P
Sprangletop[3]	*(Leptochloa* spp.*)*	A
Timothy	*(Phleum pratense)*	P
Wirestem muhly	*(Muhlenbergia frondosa)*	P

BROADLEAF WEEDS

Apply 2-3 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Alligatorweed	*(Alternanthera philoxeroides)*	A/P
Burdock	*(Arctium* spp.*)*	B
Carpetweed	*(Mollugo verticillata)*	A
Carolina geranium	*(Geranium carolinianum)*	A
Clover	*(Trifolium* spp.*)*	A/P
Common chickweed	*(Stellaria media)*	A
Common ragweed	*(Ambrosia artemisiifolia)*	A
Dandelion	*(Taraxacum officinale)*	P
Dogfennel	*(Eupatorium capillifolium)*	A
Filaree	*(Erodium* spp.*)*	A
Fleabane	*(Erigeron* spp.*)*	A
Hoary vervain	*(Verbena stricta)*	P
Horseweed	*(Conyze canadensis)*	A
Indian mustard	*(Brassica juncea)*	A
Kochia[5]	*(Kochia scoparia)*	A
Lambsquarters	*(Chenopodium album)*	A
Lespedeza	*(Lespedeza* spp.*)*	P
Miners lettuce	*(Montia perfoliata)*	A
Mullein	*(Verbascum* spp.*)*	B
Nettleleaf goosefoot	*(Chenopodium murale)*	A
Oxeye daisy	*(Chrysanthemum leucanthemum)*	P
Pepperweed	*(Lepidium* spp.*)*	A
Pigweed	*(Amaranthus* spp.*)*	A
Plantain	*(Plantago spp.)*	P
Puncturevine	*(Tribulus terrestris)*	A
Russian thistle	*(Salsola kali)*	A
Smartweed	*(Polygonum* spp.*)*	A/P
Sorrell	*(Rumex* spp.*)*	P
Sunflower	*(Helianthus* spp.*)*	A
Sweet clover	*(Melilotus* spp.*)*	A/B
Tansymustard	*(Descurainia pinnata)*	A
Western ragweed	*(Ambrosia psilostachya)*	P
Wild carrot	*(Daucus carota)*	B
Wild lettuce	*(Lactuca* spp.*)*	A/B

COMMON NAME	SPECIES	GROWTH HABIT[2]
Wild parsnip	*(Pastinaca sativa)*	B
Wild turnip	*(Brassica campestris)*	B
Woollyleaf bursage	*(Franseria tomentosa)*	P
Yellow woodsorrel	*(Oxalis stricta)*	P

Apply 3-4 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Broom snakeweed[6]	*(Gutierrezia sarothrae)*	P
Bull thistle	*(Cirsium vulgare)*	B
Burclover[3]	*(Medicago* spp.*)*	A
Chickweed, Mouseear[6]	*(Cerastium vulgatum)*	A
Clover, Hop[3]	*(Trifolium procumbens)*	A
Cocklebur	*(Xanthium strumarium)*	A
Cudweed[3]	*(Gnaphalium* spp.*)*	A
Desert Camelthorn	*(Alhagi pseudalhagi)*	P
Diffuse knapweed	*(Centaurea diffusa)*	A
Dock	*(Rumex* spp.*)*	P
Fiddleneck[3]	*(Amisinckia intermedia)*	A
Goldenrod	*(Solidago* spp.*)*	P
Henbit[3]	*(Lamium aplexiceule)*	A
Knotweed, prostrate[3]	*(Polygonum aviculare)*	A/P
Pokeweed	*(Phytolacca americana)*	P
Purple loosestrife[6]	*(Lythrum salicaria)*	P
Purslane	*(Portulaca* spp.*)*	A
Pusley, Florida[3]	*(Richardia scabra)*	A
Rocket, London[3]	*(Sisymbrium irio)*	A
Rush skeletonweed[6]	*(Chondrilla juncea)*	B
Saltbush	*(Atriplex* spp.*)*	A
Shepherd's-purse[3]	*(Capsella bursa-pastoris)*	A
Spurge, Annual[3]	*(Euphorbia* spp.*)*	A
Stinging nettle[6]	*(Urtica dioica)*	P
Velvetleaf[3]	*(Abutilon theophrasti)*	A
Yellow starthistle	*(Centaurea solstitialis)*	A

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Arrowwood	*(Pluchea sericea)*	A
Canada thistle	*(Cirsium arvense)*	P
Giant ragweed	*(Ambrosia trifida)*	A
Grey rabbitbrush	*(Chrysothamnus nauseosus)*	P
Japanese bamboo/knotweed	*(Polygonum cuspidatum)*	P
Little mallow	*(Malva parviflora)*	B
Milkweed	*(Asclepias* spp.*)*	P
Primrose	*(Oenothera kunthiana)*	P
Russian knapweed	*(Centaurea repens)*	P
Silverleaf nightshade	*(Solanum elaeagnifolium)*	P
Sowthistle	*(Sonchus* spp.*)*	A

COMMON NAME	SPECIES	GROWTH HABIT[2]
Texas thistle	*(Cirsium texanum)*	P

VINES AND BRAMBLES

Apply 1 pint per acre

COMMON NAME	SPECIES	GROWTH HABIT[2]
Field bindweed	*(Convolvulus arvensis)*	P
Hedge bindweed	*(Calystegia sepium)*	A

Apply 2-3 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Wild buckwheat	*(Polygonum convolvulus)*	P

Apply 3-4 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Greenbriar	*(Smilax spp.)*	P
Honeysuckle	*(Lonicera spp.)*	P
Morningglory	*(Ipomoea spp.)*	A/P
Poison ivy	*(Rhus radicans)*	P
Redvine	*(Brunnichia cirrhosa)*	P
Wild rose	*(Rosa spp.)*	P
Including: Multiflora rose	*(Rosa multiflora)*	P
Macartney rose	*(Rosa bractreata)*	P

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Trumpetcreeper	*(Campsis radicans)*	P
Virginia creeper	*(Parthenocissus quinquefolia)*	P
Wild grape	*(Vitis spp.)*	P

BRUSH SPECIES

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
American beech	*(Fagus grandifolia)*	P
Ash	*(Fraxinus spp.)*	P
Bald cypress	*(Taxodium distichum)*	P
Bigleaf Maple	*(Acer macrophylum)*	P
Black Locust[7]	*(Robinia pseudoacacia)*	P
Blackgum	*(Nyssa sylvatica)*	P
Boxelder	*(Acer negundo)*	P
Brazilian peppertree	*(Schinus terebinthifolius)*	P
Cherry	*(Prunus spp.)*	P

COMMON NAME	SPECIES	GROWTH HABIT[2]
Chinaberry	*(Melia azaderach)*	P
Chinese tallow-tree	*(Sapium sebiferum)*	P
Dogwood	*(Cornus* spp.*)*	P
Elm[8]	*(Ulmus* spp.*)*	P
Hawthorn	*(Crataegus* spp.*)*	P
Hickory	*(Carya* spp.*)*	P
Honeylocust[9]	*(Gleditsia triacanthos)*	P
Maple	*(Acer* spp.*)*	P
Melaleuca	*(Melaleuca quiquenervia)*	P
Mulberry	*(Morus* spp.*)*	P
Oak	*(Quercus* spp.*)*	P
Persimmon	*(Diospyros virginiana)*	P
Pine[10]	*(Pinus* spp.*)*	P
Poplar	*(Populus* spp.*)*	P
Privet	*(Ligustrum vulgare)*	P
Red Alder	*(Alnus rubra)*	P
Red Maple	*(Acer rubrum)*	P
Russian Olive	*(Eleagnus angustifolia)*	P
Saltcedar	*(Tamarix ramosissima)*	P
Sassafras	*(Sassafras albidum)*	P
Sourwood	*(Oxydendrum arboreum)*	P
Sumac	*(Rhus* spp.*)*	P
Sweetgum	*(Liquidambar styraciflua)*	P
Willow	*(Salix* spp.*)*	P
Yellow poplar	*(Liriodendron tulipifera)*	P

[1] The higher rates should be used where heavy or well established infestations occur.
[2] Growth Habit – A = Annual, B = Biennial, P = Perennial
[3] For preemergence control, tank-mix with Pendulum®.
[4] Use a minimum of 75 GPA – Control of established stands may require repeat applications.
[5] For preemergence control, tank-mix with Pendulum® or Karmex®.
[6] For best results early postemergence applications are required.
[7] Tank-mix with Roundup®, Accord®, Escort®, Krenite®, Garlon™ 3A, or Tordon™ K.
[8] Tank-mix with Roundup®, Accord® or Escort®.
[9] Tank-mix with Roundup®, Accord® Garlon™ 3A, or Tordon™ K.
[10] Tank-mix with Accord®, Roundup®, Garlon™ 3A, or Tordon™ K, or Krenite®.

ADJUVANTS

For optimal postemergence performance of **Alligare Imazapyr 2 SL**, the addition of an adjuvant to the spray solution is essential to aid in the deposition and uptake of the herbicide.

Nonioinic Surfactants: Use a nonionic surfactant at 0.25% to 1% of the total spray volume (0.25% v/v is equivalent to 1 quart in 100 gallons) in accordance with the surfactant labeling. For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 70% surfactant in the formulated product. Alcohols, fatty acids, horticultural spray oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet these requirements.

Methylated Seed Oils or Vegetable Oil Concentrates: Methylated seed oil or vegetable oil concentrate may be used at 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix methylated seed oil or vegetable oil concentrate at a rate of 1% of the total spray volume

Silicone-Based Surfactants: Silicone-based surfactants allow greater spreading of the spray droplet on the leaf surface, as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly and limit herbicide uptake. Refer to the surfactant manufacturer's label for specific recommendations.

Fertilizer/Surfactant Blends: Nitrogen-based liquid fertilizers such as 28% N, 32% N, 10-34-0 or ammonium sulfate may be used with **Alligare Imazapyr 2 SL** at 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant, methylated seed oil or vegetable oil concentrate. Tank mixes with nitrogen-based fertilizers without a nonionic surfactant, methylated seed oil or vegetable oil concentrate is not recommended.

BRUSH CONTROL

AERIAL APPLICATIONS:
Exercise all precautions to minimize or eliminate spray drift. Fixed wing aircraft and helicopters can be used to apply **Alligare Imazapyr 2 SL**; however, **DO NOT** apply by fixed wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or, if treating open tracts of land where spray drift from fixed wing aircraft application can be tolerated. Aerial equipment designed to minimize spray drift, such as helicopters equipped with a Microfoil™ boom, Thru-Valve™ boom or raindrop nozzles, must be used and calibrated. Unless applying with a Microfoil™ boom, use a drift control agent at the recommended label rate. To avoid drift, **DO NOT** make applications during inversion conditions, when winds are gusty, or during any other conditions that promote spray drift. Side trimming is not recommended with **Alligare Imazapyr 2 SL** unless death of treated vegetation is acceptable.

Uniformly apply **Alligare Imazapyr 2 SL** in 5 to 30 gallons of water per acre. Use a nonionic surfactant, methylated seed oil or silicone-based surfactant (See the **ADJUVANT** section of this label for specific recommendations). An anti-foam agent may be added, if needed.

Thoroughly clean application equipment, including landing gear, by thoroughly flushing with water immediately after using this product. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part. Maintaining painted surfaces may prevent corrosion.

GROUND APPLICATIONS:
To minimize spray drift, select proper nozzles to avoid spraying a fine mist, use pressures less than 50 psi and **DO NOT** spray under gusty or windy conditions (also refer to **SPRAY DRIFT MANAGEMENT** section). Use an anti-foam agent, if needed, and a spray pattern indicator, if desired. Thoroughly clean application equipment after using this product by thoroughly flushing with water. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part.

When making applications to rights-of-way corridors where roots of desirable vegetation may extend, apply 1 to 3 pints of **Alligare Imazapyr 2 SL** per acre in combination with recommended tank-mixes. It is not recommended to use rates higher than 3 pints per acre in such situations as injury or death of desirable vegetation may occur.

Side Trimming: **DO NOT** side trim with **Alligare Imazapyr 2 SL** unless severe injury or death of the treated vegetation is acceptable. **Alligare Imazapyr 2 SL** is readily translocated and can result in death of the entire tree.

Low Volume: Use equipment calibrated to deliver 5 to 20 gallons of spray solution per acre. Thoroughly mix 0.5 to 5% (v/v) **Alligare Imazapyr 2 SL** in water plus surfactant (See the **ADJUVANT** section of this label for recommendations). Use an anti-foam agent at the recommended rate, if needed. For difficult to control brush species (See **WEEDS CONTROLLED** section for relative susceptibility of weed species), apply the higher concentrations of herbicide and/or spray volumes but **DO NOT** apply more than 6 pints of **Alligare Imazapyr 2 SL** per acre. Excessive wetting of foliage is not recommended. See the **MIXING GUIDE** below for suggested volumes of **Alligare Imazapyr 2 SL** and water.

SUGGESTED TANK-MIXES AND APPLICATION RATES*

Target Vegetation	Rate of Alligare Imazapyr 2 SL	Tank Mix
Mixed hardwoods without elm, locust, or pine	1.0 – 1.5% by volume	Surfactant
Mixed hardwoods containing elm, locust, and pine	0.5 – 1.0% by volume	Accord® at 2 – 3% by volume plus surfactant
Mixed hardwoods with locust and pine but no elm	0.5 – 1.0% by volume	Krenite® at 2 – 5% by volume plus surfactant
Mixed hardwoods with locust and elm but no pine	0.5 – 1.0% by volume	Escort® at 2 oz./Acre or 2.3 grams/gal. plus surfactant

*Tank mixes with products containing 2,4-D have resulted in reduced efficacy of **Alligare Imazapyr 2 SL.**

MIXING GUIDE

% Solution	Amount Alligare Imazapyr 2 SL per Gallon of mix	Amount Alligare Imazapyr 2 SL per 4 Gallon Backpack
0.5%	0.6 oz	2.6 oz
1.0%	1.3 oz	5.1 oz
2.0%	2.6 oz	10.2 oz
3.0%	3.8 oz	15.4 oz
5.0%	6.4 oz	25.6 oz

MEASURING CHART

128 ounces	=	1 gallon
16 ounces	=	1 pint
8 pints	=	1 gallon
4 quarts	=	1 gallon
2 pints	=	1 quart

Application Tips: For low volume applications, select appropriate nozzles to avoid over-application. Proper application is critical to ensure desirable results. Optimum results are achieved when the spray

covers the crown and approximately 70 percent of the plant. The use of a flat fan nozzle tip with a spray angle of 40 degrees or less will aid in proper deposition.

Recommended nozzle tip sizes include 4004E or 1504E. For a straight stream and cone pattern, use adjustable cone nozzles such as 5500 X3 or 5500 X4. Attaching a roll-over valve onto a Spraying Systems Model 30 gunjet or other similar spray guns allows for the use of both a flat fan and cone tips on the same gun.

Proper Spray Pattern: Moisten, but **DO NOT** drench target vegetation. **DO NOT** spray to run-off.

Low Volume with Backpacks: For brush up to 4 feet tall, spray downward to cover approximately 70% of the plant foliage and the crown.

For brush 4 to 8 feet tall, apply a directed spray in a smooth vertical motion from the crown upward on at least two sides of the target vegetation, making sure to cover the crown whenever possible.

For brush over 8 feet tall, apply a directed spray in a smooth zig-zag motion from the crown upward on at least two sides of the target brush.

Low Volume with Hydraulic Handgun Application Equipment: Use same technique as described above for Low Volume with Backpacks.

For broadcast applications, simulate a gentle rain near the top of target vegetation, allowing spray to penetrate the target foliage and contact the crown without run-off onto understory vegetation. **DO NOT** spray to run-off. Herbicide spray that contacts understory vegetation may result in severe injury or death of understory plants.

MIXING GUIDE FOR LOW VOLUME APPLICATIONS

AMOUNT OF SPRAY SOLUTION BEING PREPARED	**DESIRED CONCENTRATION (fluid volume)**				
	0.5%	**0.75%**	**1.0%**	**1.5%**	**5.0%**
	(Amount of Alligare Imazapyr 2 SL to use)				
1 gallon	0.6 oz	0.9 oz	1.3 oz	1.9 oz	6.5 oz
3 gallons	1.9 oz	2.8 oz	3.8 oz	5.8 oz	1.2 pints
4 gallons	2.5 oz	3.8 oz	5.1 oz	7.7 oz	1.6 pints
5 gallons	3.2 oz	4.8 oz	6.5 oz	9.6 oz	2 pints
50 gallons	2 pints	3 pints	4 pints	6 pints	10 quarts
100 gallons	4 pints	6 pints	8 pints	6 quarts	5 gallons
2 tablespoons = 1 fluid ounce					

High Volumes: For optimum performance when spraying medium to high density brush, use equipment calibrated to deliver up to 100 gallons of finished spray per acre (GPA). Application volumes exceeding 100 GPA may result in excessive spray run-off, causing injury to desirable ground cover species. Thoroughly mix **Alligare Imazapyr 2 SL** at 2 to 6 pints per acre in water and include a surfactant (See

ADJUVANT section for surfactant recommendations). Use an anti-foam agent according to its label, if needed. For hard-to-control species (See **WEEDS CONTROLLED** section for relative susceptibility of weeds), use the higher concentrations of herbicide and/or spray volumes but **DO NOT** apply more than 6 pints of **Alligare Imazapyr 2 SL** per acre. Uniformly cover the foliage of the target vegetation but **DO NOT** apply to run-off.

TANK MIXES FOR BRUSH CONTROL:
Alligare Imazapyr 2 SL may be tank-mixed with Accord®, Roundup®, Krenite®, Escort®, Telar®, Tordon™ K, Garlon™ 3A, Banvel® and Vanquish® to provide control of **Alligare Imazapyr 2 SL**-tolerant species.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes. Tank-mixing with products that contain 2,4-D may reduce the performance of **Alligare Imazapyr 2 SL**.

INVERT EMULSIONS:
Alligare Imazapyr 2 SL can be applied as an invert emulsion (water-in-oil emulsion) to minimize spray drift and spray run-off, thereby delivering more herbicide to the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Refer to the invert chemical label for proper mixing directions.

CUT STUBBLE:
Alligare Imazapyr 2 SL can be applied within 2 weeks after mechanical mowing or cutting of brush to suppress or control resprouting. Apply **Alligare Imazapyr 2 SL** at 1 to 2 pints per acre to the cut area. **Alligare Imazapyr 2 SL** may be tank-mixed with Tordon™ K to aid in control or suppression of brush. The addition of 5% (v/v) or more of a penetrating agent (surfactant) can aid herbicide uptake through the bark or exposed roots.

Since cut stubble applications are made to the soil and cut brush stumps, ground cover injury may occur. However, vegetation will recover. NOTE that applications of **Alligare Imazapyr 2 SL** directly to the soil beneath desirable trees can result in root uptake and cause injury or death to desirable trees.

To reduce potential root uptake by desirable vegetation, allow target brush to first regrow some foliage, then apply **Alligare Imazapyr 2 SL** to brush foliage. See the **BRUSH CONTROL** section of this label.

STUMP AND CUT STEM TREATMENTS:
Alligare Imazapyr 2 SL may be used to control undesirable woody vegetation on non-cropland by application to the cambium area of freshly-cut stump surfaces or to fresh cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall. **DO NOT** over-apply to cause run-off or puddling of spray solution.

Mixing: Mix **Alligare Imazapyr 2 SL** as either a concentrate or dilute solution for stump and cut stem treatments. Apply dilute solutions to the surface of the stump or to cuts on the stem of the target woody vegetation. Apply concentrate solutions to cuts on the stem. Use of the concentrate solutions permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application directions below to determine proper application techniques for each type of solution.

To prepare a dilute solution, mix 8 to 12 fluid ounces of **Alligare Imazapyr 2 SL** with one gallon of water. Except in the state of California, if temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be added according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve herbicide uptake through partially callused cambium tissue.

To prepare a concentrated solution, mix 2 quarts of **Alligare Imazapyr 2 SL** with no more than 1 quart of water.

APPLICATION WITH DILUTE SOLUTIONS:
For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Thoroughly wet the entire cambium area (the wood just inside the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Insure that the injector completely penetrates the bark at each injection site.

For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts through the bark around the tree at intervals no more than two inches between cut edges. Spray or brush **Alligare Imazapyr 2 SL** solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS:
For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every 3 inches of Diameter at Breast Height (DBH) on the target tree. For example, a 3 inch DBH tree will receive 1 injection cut while a 6 inch DBH tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts at a downward angle through the bark at approximately equal intervals around the tree. Make at least one cut for every 3 inches of DBH on the target tree as described above, then spray or brush **Alligare Imazapyr 2 SL** solution into each cut until thoroughly wet ensuring that the solution does not run out of the cut.

NOTE: Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.

TOTAL VEGETATION CONTROL IN NON-CROP AREAS WHERE BAREGROUND IS DESIRED

Alligare Imazapyr 2 SL is an effective herbicide for preemergence or postemergence control of many annual and perennial broadleaf and grass weeds in non-crop areas where bareground is desired, including areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, and non-irrigation ditchbanks. **Alligare Imazapyr 2 SL** is particularly effective on hard-to-control perennial grasses. **Alligare Imazapyr 2 SL** can be used alone at 1.5 to 6 pints per acre or in tank-mixes with Roundup®, Finale®, MSMA, Diuron, Karmex®, Pendulum®, Simazine, Banvel®, Vanquish®, or Oust® herbicides. The degree and duration of control are dependent on the rate of **Alligare Imazapyr 2 SL** used, the tank-mix partner, the volume of carrier, soil texture, rainfall and other conditions.

Apply **Alligare Imazapyr 2 SL** at anytime of the year. Use equipment calibrated to deliver desired gallons per acre spray volume and uniformly distribute the spray pattern over the treated area.

Postemergence Applications: Always use a spray adjuvant (See **ADJUVANT** section of this label) in postemergence applications. For optimum performance on hard-to-control annual grasses, apply 100 gallons per acre or less. For quicker burndown of target weeds, tank mix **Alligare Imazapyr 2 SL** with products such as Roundup®, Finale®, or MSMA. Tank mixes with products that contain 2,4-D have reduced performance of **Alligare Imazapyr 2 SL**. Always follow the more restrictive label when tank-mixing.

Spot Treatments: Alligare Imazapyr 2 SL may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation. To prepare the spray solution, thoroughly mix 0.5 to 5% **Alligare Imazapyr 2 SL** plus an adjuvant in a gallon of water. For increased burndown, tank mix with Roundup®, Finale®, MSMA, or similar products. For extended residual weed control or to increase the weed spectrum, add Pendulum® or Diuron (See **TANK MIX RECOMMENDATIONS FOR BAREGROUND**). Always follow the more restrictive label when tank-mixing.

FOR CONTROL OF UNDESIRABLE WEEDS
UNDER PAVED SURFACES

Alligare Imazapyr 2 SL can be used under asphalt, pond liners and other paved areas, but ONLY in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents encroachment of roots from desirable plants.

Alligare Imazapyr 2 SL should only be used where the area to be treated has been prepared according to good construction practices. Before application of **Alligare Imazapyr 2 SL,** rhizomes, stolons, tubers or vegetative plant parts should be removed from the treatment site by scalping with a grader blade to a depth sufficient to insure their complete removal.

IMPORTANT: Paving should follow **Alligare Imazapyr 2 SL** applications as soon as possible. **DO NOT** apply where the chemical may contact the roots of desirable trees or other plants.

This product is not recommended for use under pavement on residential properties such as driveways or parking lots, nor in recreational areas such as under bike or jogging paths, golf cart paths, tennis courts, or where landscape plantings could be anticipated. Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. NOTE that roots of trees and shrubs may extend a considerable distance beyond the branch extremities; i.e., drip line.

APPLICATION DIRECTIONS FOR PAVED SURFACES:
Applications should be made to the soil surface only when final grade is established. **DO NOT** move soil following **Alligare Imazapyr 2 SL** application.

Apply **Alligare Imazapyr 2 SL** in at least 100 gal. water per acre to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. Prepare spray solution by thoroughly mixing **Alligare Imazapyr 2 SL** at 6 pints per acre (2.2 fluid ounce per 1000 square feet) into clean water in the spray tank

If the soil is not moist before treatment, **Alligare Imazapyr 2 SL** should be incorporated into the soil to a depth of 4 to 6 inches using a roto-tiller or disc. Rainfall or irrigation of 1 inch will also provide uniform incorporation. **DO NOT** allow treated soil to wash or move from treated areas into untreated areas.

FOR CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED BERMUDAGRASS AND BAHIAGRASS

Alligare Imazapyr 2 SL may be used on established Common Bermudagrass, Coastal Bermudagrass and Bahiagrass turf on roadsides, utility rights-of-way and other non-cropland industrial sites to control the weeds listed below. Such treatment of Bermudagrass with **Alligare Imazapyr 2 SL** will result in a compacted growth habit and seedhead inhibition.

Uniformly apply **Alligare Imazapyr 2 SL** with properly calibrated ground equipment using at least 10 gallons of water per acre and a spray pressure 20 to 50 psi.

IMPORTANT: Temporary yellowing of grass may occur when treatment is made after growth commences. **DO NOT** add surfactant in excess of 1 oz. per 25 gallons of spray solution. **DO NOT** apply to grass during its first growing season. **DO NOT** apply to grass that is under stress from drought, disease, insects or other causes.

DOSAGE RATES AND TIMING:
Bermudagrass: Apply **Alligare Imazapyr 2 SL** at 6 to 12 oz. per acre when the Bermudagrass is dormant. Apply **Alligare Imazapyr 2 SL** at 6 to 8 oz. per acre after the Bermudagrass has reached full green-up. Applications made during green-up will delay green-up. Include a surfactant in the spray solution.

For broader spectrum or longer preemergence control of annual grasses and small seeded broadleaf weeds, add Pendulum® herbicide at 3.3 to 6.6 lbs. per acre. Consult the Pendulum® label for weeds controlled and for other use directions and precautions.

For control of Johnsongrass in Bermudagrass turf, apply **Alligare Imazapyr 2 SL** at 8 oz. per acre plus Roundup® herbicide at 12 oz. per acre plus surfactant. For additional control of broadleaves and vines, add Garlon™ 3A to the above mix at 1-2 pints per acre. Observe all precautions and restrictions on the Garlon™ 3A and Roundup® labels.

Bahiagrass: Apply **Alligare Imazapyr 2 SL** at 4 to 8 oz. per acre when the Bahiagrass is dormant or after the grass has initiated green-up but has not exceeded 25% green-up. Include a surfactant in the spray solution (See **ADJUVANT** section for surfactant recommendations).

WEEDS CONTROLLED:

Bedstraw (*Galium* spp.)
Bishopweed (*Ptilimnium capillaceum*)
Buttercup (*Ranunculus parviflorus*)
Carolina geranium (*Geranium carolinianum*)
Fescue (*Festuca* spp.)
Foxtail (*Setaria* spp.)
Little barley (*Hordeum pusillum*)
Seedling Johnsongrass (*Sorghum halepense*)
Wild carrot (*Daucus carota*)
White clover (*Trifolium repens*)
Yellow woodsorrel (*Oxalis stricta*)

GRASS GROWTH AND SEEDHEAD SUPPRESSION

Alligare Imazapyr 2 SL will suppress growth and seedhead development of certain turfgrasses in unimproved areas. When applied to desirable turf, **Alligare Imazapyr 2 SL** may result in temporary turf damage and/or discoloration, depending on environmental conditions. For optimum performance, apply **Alligare Imazapyr 2 SL** before culm elongation, either before or after mowing. If applied before mowing, allow at least three days of active growth before mowing. If following a mowing, allow sufficient time for the grasses to recover before applying **Alligare Imazapyr 2 SL** or injury may be amplified.

DO NOT apply to turf under stress (drought, cold, insect damaged, etc.) or severe injury or death may occur.

Bermudagrass: Apply **Alligare Imazapyr 2 SL** at 6 to 8 oz. per acre from early green-up to prior to seed head initiation. **DO NOT** use a surfactant for this application.

Cool Season Unimproved Turf: Apply **Alligare Imazapyr 2 SL** at 2 oz. per acre plus 0.25% nonionic surfactant. For increased suppression, tank mix **Alligare Imazapyr 2 SL** with products such as Campaign® (24 oz. per acre) or Embark® (8 oz. per acre).

Tank-mixes may increase injury to desired turf. Consult each product label for recommended turf species, use directions and precautions. Tank mixes with products that contain 2,4-D may decrease the effectiveness of **Alligare Imazapyr 2 SL**.

INSTRUCTIONS FOR RANGELAND USE (ALL STATES EXCEPT CALIFORNIA)

Alligare Imazapyr 2 SL may be applied to rangeland for controlling undesirable vegetation to achieve one or more of the following vegetation management objectives:

1. To control undesirable (non-native, invasive and noxious) plant species.
2. To control undesirable vegetation to aid in establishing desirable rangeland plant species.
3. To control undesirable vegetation to aid in establishing desirable rangeland vegetation following a fire.
4. To control undesirable vegetation for wildfire fuel reduction.
5. To release existing desirable rangeland plant communities from the competitive pressure of undesirable plant species.
6. To control undesirable vegetation for wildlife habitat improvement.

To ensure the protection of threatened and endangered plants when applying **Alligare Imazapyr 2 SL** to rangeland:

1. Federal agencies must follow NEPA regulations.
2. State agencies must work with the Fish and Wildlife Service or its designated state conservation agencies.
3. Other organizations or individuals must operate under a Habitat Conservation Plan if threatened or endangered plants are known to be present in the area to be treated.

See the appropriate section(s) of this label for specific use directions for the desired rangeland vegetation management objective.

Alligare Imazapyr 2 SL should only be applied to rangeland as specific weed problems arise. Long term control of undesirable weed species ultimately depends on successful land management practices that promote the growth and sustainability of desirable rangeland plant species.

Grazing and haying restrictions: There are no grazing restrictions following **Alligare Imazapyr 2 SL** application. **DO NOT** cut forage grass for hay for seven days after **Alligare Imazapyr 2 SL** application.

ROTATIONAL CROP INSTRUCTIONS

Rotational crops may be planted twelve months after **Alligare Imazapyr 2 SL** application at the recommended pasture and rangeland rates. To avoid damage to crops planted in these areas, and to ensure complete **Alligare Imazapyr 2 SL** dissipation in treated sites, a field bioassay should be conducted before planting to crops. To conduct a field bioassay, grow to maturity test strips of the crop(s) intended for planting the following year. The test strips should cross the entire field including knolls and low areas and include variations in soil type and pH within the treated area. Crop response to the bioassay will indicate whether or not to plant the crop(s) grown in the test strips.

Use of **Alligare Imazapyr 2 SL** in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: DO NOT store below 10°F.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable containers (1 quart, 1, 2.5 and 30 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable ≤ 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Refillable container (250 gallon & bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

IMPORTANT: Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitation of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Banvel and Pendulum are registered trademarks of BASF.
Microfoil is a trademark of Rhone Poulenc Ag. Company.
Thru-Valve is a trademark of Waldrum Specialties.
Accord, Campaign and Roundup are registered trademarks of Monsanto Company
Escort, Karmex, Krenite, Oust and Telar are registered trademarks of E.I. DuPont de Nemours and Company.
Garlon and Tordon are trademarks of Dow AgroSciences Company.
Embark is a registered trademark of PBI/Gordon Corporation.
Finale is a registered trademark of Bayer.

Vanquish is a trademark of a Syngenta Group Company.

EPA 20081209

NOTIFICATION

DEC 30 2008

MATERIAL TO BE ADDED TO JACKET

REG # 81927 -23 10A42

Description: PR Notice 2007-4 changes

check all that apply		
☐	new stamped accepted label	Send to CSC
☐	new CSF	
☑	notification	

Instructions:

Attach this sheet to the top of **ALL** material sent to the file room (both loose paper and new material in jackets). This sheet will be imaged; a clear description will aid in finding material in the e-jacket. Remove staples from all material. If returning loose paper then hold together with a binder or paper clip. CSFs should be placed in the CSF folder (if returning jacket) or covered with a red CBI sheet (if returning loose paper). Material to be returned to file room should be place in the appropriate bin.

NOTIFICATION
APR 30 2008

Reviewer's Name: Nicole Williams Date: ~~4/30/08~~ 5/1/08

Phone: (703) 308-8551 Division: RD

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Michael Kellog
Agent for Alligare, LLC
Pyris Regulatory Consulting, Inc.
4110 136th St. N.W.
Gig Harbor, WA 98332

APR 30 2008

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Mr. Kellog:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated April 14, 2008 for:

EPA Registration 81927-23 Alligare Imazapyr 2 SL

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-8893.

Sincerely,

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

STG

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

April 14, 2008

COURIER DELIVERY

Jim Tompkins (PM 25)
Document Processing Desk (**NOTIF**)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Alligare, LLC – Alligare Imazapyr 2 SL (EPA Reg. No. 81927-23)
Revision to Container Disposal Instructions per PRN 2007-4

Dear Mr. Tompkins,

On behalf of Alligare, LLC please find the enclosed label notification revising the container disposal instructions per PRN 2007-4 for Alligare's Imazapyr 2 SL (EPA Reg. No. 81927-23).

In support of this notification submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Alligare Imazapyr 2 SL labeling with changes tracked
3. One (1) copy of the Alligare Imazapyr 2 SL labeling with changes incorporated
4. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

Sincerely,

Michael Kellogg

Enclosures

cc: Jay Golz; Alligare, LLC

Please read instructions on reverse before comp[illegible] form. Form Approved [illegible]MB No. 2070-0060, Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
81927-23	J. Tompkins	[x] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
Alligare, LLC / Alligare Imazapyr 2 SL	25	

5. Name and Address of Applicant *(Include ZIP Code)*

Alligare, LLC
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

[ ] *Check if this is a new address*

6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. NOTIFICATION

APR 30 2008

Product Name

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated
- [x] Notification - Explain below.
- [ ] Final printed labels in reponse to Agency letter dated
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes [x] No	[ ] Yes [x] No	[ ] Yes [x] No	[ ] Metal [x] Plastic [ ] Glass [ ] Paper [ ] Other (Specify)
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[x] Label [ ] Container	1 qt., 1 gal., 2.5 gal., 30 gal., 250 gal., bulk	[x] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [x] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Michael Kellogg	Agent	(253) 853-7369

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature	3. Title	6. Date Application Received
Michael Kellogg	Agent	(Stamped)
4. Typed Name	**5. Date**	
Michael Kellogg	4/14/08	

Alligare Imazapyr 2 SL

NOTIFICATION
APR 30 2008

Alligare Imazapyr 2 SL controls undesirable vegetation in non-cropland areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks and under paved surfaces. **Alligare Imazapyr 2 SL** may also be used in grass pastures and rangeland, and for establishing and maintaining wildlife openings.

ACTIVE INGREDIENT:	
Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid)*	27.8%
OTHER INGREDIENTS:	72.2%
TOTAL:	100.0%

*Equivalent to 22.6% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid equivalent per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCION

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

FIRST AID	
If swallowed:	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by the poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-424-9300.	

EPA Reg. No. 81927-23 **EPA Est. No.**

Manufactured For:
Alligare, LLC
13 N. 8th Street
Opelike, AL 36801

Net Contents:

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

Personal Protective Equipment (PPE):
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:
- Long-sleeve shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:
Users Should:
- Wash hands before eating, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Alligare Imazapyr 2 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic and plastic-lined steel containers.

DO NOT mix, store or apply **Alligare Imazapyr 2 SL** or spray solutions of **Alligare Imazapyr 2 SL** in unlined steel (except stainless steel) containers or spray tanks.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Alligare Imazapyr 2 SL should be used only in accordance with recommendations on the label attached to the container. Keep containers closed to avoid spills and contamination.

GENERAL INFORMATION

Alligare Imazapyr 2 SL is an aqueous solution intended to be mixed with water and surfactant(s) for application to non-cropland areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks, including grazed or hayed areas within these sites. **Alligare Imazapyr 2 SL** is also recommended for the release of unimproved Bermudagrass and Bahiagrass. It may also be used beneath certain paved surfaces. Additionally, **Alligare Imazapyr 2 SL** may be used on grass pastures and rangeland, as well as for establishing and maintaining wildlife openings.

When applied either preemergence or postemeregence to weeds, **Alligare Imazapyr 2 SL** will control most annual and perennial grasses and broadleaf weeds in addition to many brush end vine species. **Alligare Imazapyr 2 SL** will provide residual control of labeled weeds which germinate in the treated areas. Postemergence application with a surfactant is the method of choice in most situations, particularly for perennial weeds. For maximum affect, weeds should be growing vigorously at postemergence application and the spray solution should include a surfactant (See **ADJUVANT** Section for recommendations). **Alligare Imazapyr 2 SL** solutions may be broedcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques. In addition, **Alligare Imazapyr 2 SL** may be used for stump and cut stem treatments.

Alligare Imazapyr 2 SL controls vegetation by absorbtion through leaves, stems, and roots, from which it is translocated throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves and necrosis spreads from this point. In perennials, **Alligare Imazapyr 2 SL** is translocated into and kills underground storage tissues to prevent regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species until two weeks after application. Complete kill of plants mey not occur for several weeks. Applications of **Alligare Imazapyr 2 SL** are rain-fast one hour after treatment.

When applying **Alligare Imazapyr 2 SL** as a tank mix, follow the more restrictive directions and restrictions on the labels for all products used. Do not tank mix **Alligare Imazapyr 2 SL** with any preduct that prohibits such mixing.

PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Alligare Imazapyr 2 SL can occasionally affect non-target or untreated plants by root uptake of the herbicide. Injury or loss of non-target plants may result if **Alligare Imazapyr 2 SL** is applied onto or near desirable plants, or to areas where their roots extend, or in areas where treated soil may be washed or moved within their drip line.

IMPORTANT

DO NOT use on food crops. **DO NOT** treat irrigation ditches or water used for irrigation of crops or for domestic purposes. Keep away from fertilizers, insecticides, fungicides and seeds. **DO NOT** drain or flush equipment on or near desirable plants, or onto areas where their roots may extend, or in locations where the chemical may be washed or moved within their drip line. **DO NOT** use on lawns, walks, driveways, tennis courts or similar areas where roots of desirable vegetation may extend and be exposed to potential injury and/or mortality from root uptake of **Alligare Imazapyr 2 SL**. **DO NOT** side trim

desirable vegetation with this product unless severe injury or plant death is acceptable. Exercise precautions to prevent spray drift onto desirable plants.

Clean application equipment immediately after using this product by thoroughly flushing with water.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of **48 hours.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Non-crop weed control is not within the scope of the Worker Protection Standard. See the **GENERAL INFORMATION** section of this label for a description of non-crop sites.

DO NOT enter treated areas without protective clothing until sprays have dried.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may damage sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS**).

Controlling Droplet Size:

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles – use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.)

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing Spray Drift from Aerial Applications: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length – the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation – nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height – without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Broadcast): Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

WEEDS CONTROLLED BY ALLIGARE IMAZAPYR 2 SL

When used as directed, **Alligare Imazapyr 2 SL** provides preemergence or postemergence control with residual control of the weed species listed below. Annual weeds may be controlled by preemergence or postemergence applications of **Alligare Imazapyr 2 SL.** For established biennial and perennial vegetation control, postemergence treatmenta of **Alligare Imazapyr 2 SL** are recommended. The tables below show broadcast rates and indicate relative weed sensitivity. It is important to consider relative weed sensitivity when preparing low volume spray solutions (See **LOW VOLUME** section of **GROUND APPLICATIONS**), since low volume treatments apply less **Alligare Imazapyr 2 SL** per acre than is shown for the broadcast treatments.

Resistant Biotypes: Some weeds listed below may have naturally-occurring biotypes (plants within a given species that have a slightly different but distinct genetic makeup from other plants of that species) that are not effectively controlled by this and/or other herbicides (Oust®) with the ALS/AHAS enzyme-inhibiting mode of action. If naturally-occurring ALS/AHAS-resistant biotypes are present in an area, **Alligare Imazapyr 2 SL** should be tank-mixed or applied sequentially with a registered herbicide that depends on a different mode of action to ensure control.

GRASSES

Apply 2-3 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Annual bluegrass	*(Poa annua)*	A
Broadleaf signalgrass	*(Brachiaria platyphylla)*	A
Canada bluegrass	*(Poa compressa)*	P
Downy brome	*(Bromus tectorum)*	A
Fescue	*(Festuca spp.)*	A/P
Foxtail	*(Setaria spp.)*	A
Italian ryegrass	*(Lolium multiflorum)*	A

COMMON NAME	SPECIES	GROWTH HABIT[2]
Johnsongrass	*(Sorghum halepense)*	P
Kentucky bluegrass	*(Poa pratensis)*	P
Lovegrass	*(Eragrostis spp.)*	A/P
Orchardgrass	*(Dactylis glomerata)*	P
Paragrass	*(Brachiaria mutica)*	P
Quackgrass	*(Agropyron repens)*	P
Sandbur	*(Cenchrus spp.)*	A
Sand dropseed	*(Sporobulus cryptandrus)*	P
Smooth brome	*(Bromus inermis)*	P
Vaseygrass	*(Paspalum urvillei)*	P
Wild oats	*(Avena fatua)*	A
Witchgrass	*(Panicum capillare)*	A

Apply 3-4 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Barnyardgrass[3]	*(Echinochloa crus-gali)*	A
Beardgrass	*(Andropogon spp.)*	P
Bluegrass, Annual[3]	*(Poa annua)*	A
Cheat	*(Bromus secalinus)*	A
Crabgrass	*(Digitaria spp.)*	A
Crowfootgrass[3]	*(Dactyloctenium aegyptium)*	A
Fall panicum	*(Panicum dichotomiflorum)*	A
Giant Reed	*(Arundo donax)*	A
Goosegrass	*(Eleusine indica)*	A
Itchgrass[3]	*(Rottboellia exaltata)*	A
Junglerice[3]	*(Echinochloa colonum)*	A
Lovegrass[3]	*(Eragrostis spp.)*	A
Maidencane	*(Panicum hemitomon)*	A
Panicum, Browntop[3]	*(Panicum fasciculatum)*	A
Panicum, Texas[3]	*(Panicum texanum)*	A
Prairie threeawn	*(Aristida oligantha)*	P
Reed canarygrass	*(Phalaris arundinacea)*	P
Sandbur, Field[3]	*(Cenchrus incertus)*	A
Signalgrass[3]	*(Brachiaria spp.)*	A
Torpedograss	*(Panicum repens)*	P
Wild barley	*(Hordeum spp.)*	A
Wooly Cupgrass[3]	*(Erichloa villosa)*	A

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Bahiagrass	*(Paspalum notatum)*	P
Bermudagrass[4]	*(Cynodon dactylon)*	P
Big bluestem	*(Andropogon gerardii)*	P
Cattail	*(Typha spp.)*	P
Cogongrass	*(Imperata cylindrica)*	P
Dallisgrass	*(Paspalum dilatatum)*	P
Feathertop	*(Pennisetum villosum)*	P

COMMON NAME	SPECIES	GROWTH HABIT[2]
Guineagrass	*(Panicum maximum)*	P
Phragmites	*(Phragmites australis)*	P
Prairie cordgrass	*(Spartina pectinata)*	P
Saltgrass[4]	*(Distichlis stricta)*	P
Sand dropseed	*(Sporobolus cryptandrus)*	P
Sprangletop[3]	*(Leptochloa* spp.*)*	A
Timothy	*(Phleum pratense)*	P
Wheatem muhly	*(Muhlenbergia frondosa)*	P

BROADLEAF WEEDS

Apply 2-3 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Alligatorweed	*(Alternanthera philoxeroides)*	A/P
Burdock	*(Arctium* spp.*)*	B
Carpetweed	*(Mollugo verticillata)*	A
Carolina geranium	*(Geranium carolinianum)*	A
Clover	*(Trifolium* spp.*)*	A/P
Common chickweed	*(Stellaria media)*	A
Common ragweed	*(Ambrosia artemisiifolia)*	A
Dandelion	*(Taraxacum officinale)*	P
Dogfennel	*(Eupatorium capillifolium)*	A
Filaree	*(Erodium* spp.*)*	A
Fleabane	*(Erigeron* spp.*)*	A
Hoary vervain	*(Verbena stricta)*	P
Horseweed	*(Conyza canadensis)*	A
Indian mustard	*(Brassica juncea)*	A
Kochia[5]	*(Kochia scoparia)*	A
Lambsquarters	*(Chenopodium album)*	A
Lespedeza	*(Lespedeza* spp.*)*	P
Miners lettuce	*(Montia perfoliata)*	A
Mullein	*(Verbascum* spp.*)*	B
Nettleleaf goosefoot	*(Chenopodium murale)*	A
Oxeye daisy	*(Chrysanthemum leucanthemum)*	P
Pepperweed	*(Lepidium* spp.*)*	A
Pigweed	*(Amaranthus* spp.*)*	A
Plantain	*(Plantago spp.)*	P
Puncturevine	*(Tribulus terrestris)*	A
Russian thistle	*(Salsola kali)*	A
Smartweed	*(Polygonum* spp.*)*	A/P
Sorrell	*(Rumex* spp.*)*	P
Sunflower	*(Helianthus* spp.*)*	A
Sweet clover	*(Melilotus* spp.*)*	A/B
Tansymustard	*(Descurainia pinnata)*	A
Western ragweed	*(Ambrosia psilostachya)*	P
Wild carrot	*(Daucus carota)*	B
Wild lettuce	*(Lactuca* spp.*)*	A/B

COMMON NAME	SPECIES	GROWTH HABIT[2]
Wild parsnip	*(Pastinaca sativa)*	B
Wild turnip	*(Brassica campestris)*	B
Woollyleaf bursage	*(Franseria tomentosa)*	P
Yellow woodsorrel	*(Oxalis stricta)*	P

Apply 3-4 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Broom snakeweed[6]	*(Gutierrezia sarothrae)*	P
Bull thistle	*(Cirsium vulgare)*	B
Burclover[3]	*(Medicago* spp.*)*	A
Chickweed, Mouseear[5]	*(Cerastium vulgatum)*	A
Clover, Hop[3]	*(Trifolium procumbens)*	A
Cocklebur	*(Xanthium strumarium)*	A
Cudweed[3]	*(Gnaphalium* spp.*)*	A
Desert Camelthorn	*(Alhagi pseudalhagi)*	P
Diffuse knapweed	*(Centaurea diffusa)*	A
Dock	*(Rumex* spp.*)*	P
Fiddleneck[3]	*(Amisinckia intermedia)*	A
Goldenrod	*(Solidago* spp.*)*	P
Henbit[3]	*(Lamium aplexicaule)*	A
Knotweed, prostrate[3]	*(Polygonum aviculare)*	A/P
Pokeweed	*(Phytolacca americana)*	P
Purple loosestrife[6]	*(Lythrum salicaria)*	P
Purslane	*(Portulaca* spp.*)*	A
Pusley, Florida[3]	*(Richardia scabra)*	A
Rocket, London[3]	*(Sisymbrium Irio)*	A
Rush skeletonweed[6]	*(Chondrilla juncea)*	B
Saltbush	*(Atriplex* spp.*)*	A
Shepherd's-purse[3]	*(Capsella bursa-pastoris)*	A
Spurge, Annual[3]	*(Euphorbia* spp.*)*	A
Stinging nettle[6]	*(Urtica dioica)*	P
Velvetleaf[3]	*(Abutilon theophrasti)*	A
Yellow starthistle	*(Centaurea solstitialis)*	A

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Arrowwood	*(Pluchea sericea)*	A
Canada thistle	*(Cirsium arvense)*	P
Giant ragweed	*(Ambrosia trifida)*	A
Grey rabbitbrush	*(Chrysothamnus nauseosus)*	P
Japanese bamboo/knotweed	*(Polygonum cuspidatum)*	P
Little mallow	*(Malva parviflora)*	B
Milkweed	*(Asclepias* spp.*)*	P
Primrose	*(Oenothera kunthiana)*	P
Russian knapweed	*(Centaurea repens)*	P
Silverleaf nightshade	*(Solanum elaeagnifolium)*	P
Sowthistle	*(Sonchus* spp.*)*	A

COMMON NAME	SPECIES	GROWTH HABIT[2]
Texas thistle	*(Cirsium texanum)*	P

VINES AND BRAMBLES

Apply 1 pint per acre

COMMON NAME	SPECIES	GROWTH HABIT[2]
Field bindweed	*(Convolvulus arvensis)*	P
Hedge bindweed	*(Calystegia sepium)*	A

Apply 2-3 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Wild buckwheat	*(Polygonum convolvulus)*	P

Apply 3-4 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Greenbriar	*(Smilax* spp.*)*	P
Honeysuckle	*(Lonicera* spp.*)*	P
Morningglory	*(Ipomoea* spp.*)*	A/P
Poison ivy	*(Rhus radicans)*	P
Redvine	*(Brunnichia cirrhosa)*	P
Wild rose	*(Rosa* spp.*)*	P
Including: Multiflora rose	*(Rosa multiflora)*	P
Macartney rose	*(Rosa bractreata)*	P

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
Trumpetcreeper	*(Campsis radicans)*	P
Virginia creeper	*(Parthenocissus quinquefolia)*	P
Wild grape	*(Vitis* spp.*)*	P

BRUSH SPECIES

Apply 4-6 pints per acre[1]

COMMON NAME	SPECIES	GROWTH HABIT[2]
American beech	*(Fagus grandifolia)*	P
Ash	*(Fraxinus* spp.*)*	P
Bald cypress	*(Taxodium distichum)*	P
Bigleaf Maple	*(Acer macrophylum)*	P
Black Locust[7]	*(Robinia pseudoacacia)*	P
Blackgum	*(Nyssa sylvatica)*	P
Boxelder	*(Acer negundo)*	P
Brazilian peppertree	*(Schinus terebinthifolius)*	P
Cherry	*(Prunus* spp.*)*	P

COMMON NAME	SPECIES	GROWTH HABIT[2]
Chinaberry	*(Melia azadarach)*	P
Chinese tallow-tree	*(Sapium sebiferum)*	P
Dogwood	*(Cornus spp.)*	P
Elm[8]	*(Ulmus spp.)*	P
Hawthorn	*(Crataegus spp.)*	P
Hickory	*(Carya spp.)*	P
Honeylocust[9]	*(Gleditsia triacanthos)*	P
Maple	*(Acer spp.)*	P
Melaleuca	*(Melaleuca quiquenervia)*	P
Mulberry	*(Morus spp.)*	P
Oak	*(Quercus spp.)*	P
Persimmon	*(Diospyros virginiana)*	P
Pine[10]	*(Pinus spp.)*	P
Poplar	*(Populus spp.)*	P
Privet	*(Ligustrum vulgare)*	P
Red Alder	*(Alnus rubra)*	P
Red Maple	*(Acer rubrum)*	P
Russian Olive	*(Eleagnus angustifolia)*	P
Saltcedar	*(Tamarix ramosissima)*	P
Sassafras	*(Sassafras albidum)*	P
Sourwood	*(Oxydendrum arboreum)*	P
Sumac	*(Rhus spp.)*	P
Sweetgum	*(Liquidambar styraciflua)*	P
Willow	*(Salix spp.)*	P
Yellow poplar	*(Liriodendron tulipifera)*	P

[1] The higher rates should be used where heavy or well established infestations occur.
[2] Growth Habit – A = Annual, B = Biennial, P = Perennial
[3] For preemergence control, tank-mix with Pendulum®.
[4] Use a minimum of 75 GPA – Control of established stands may require repeat applications.
[5] For preemergence control, tank-mix with Pendulum® or Karmex®.
[6] For best results early postemergence applications are required.
[7] Tank-mix with Roundup®, Accord®, Escort®, Krenite®, Garlon™ 3A, or Tordon™ K.
[8] Tank-mix with Roundup®, Accord® or Escort®.
[9] Tank-mix with Roundup®, Accord® Garlon™ 3A, or Tordon™ K.
[10] Tank-mix with Accord®, Roundup®, Garlon™ 3A, or Tordon™ K, or Krenite®.

ADJUVANTS

For optimal postemergence performance of **Alligare Imazapyr 2 SL**, the addition of an adjuvant to the spray solution is essential to aid in the deposition and uptake of the herbicide.

Nonionic Surfactants: Use a nonionic surfactant at 0.25% to 1% of the total spray volume (0.25% v/v is equivalent to 1 quart in 100 gallons) in accordance with the surfactant labeling. For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 70% surfactant in the formulated product. Alcohols, fatty acids, horticultural spray oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet these requirements.

Methylated Seed Oils or Vegetable Oil Concentrates: Methylated seed oil or vegetable oil concentrate may be used at 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix methylated seed oil or vegetable oil concentrate at a rate of 1% of the total spray volume

Silicone-Based Surfactants: Silicone-based surfactants allow greater spreading of the spray droplet on the leaf surface, as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly and limit herbicide uptake. Refer to the surfactant manufacturer's label for specific recommendations.

Fertilizer/Surfactant Blends: Nitrogen-based liquid fertilizers such as 28% N, 32% N, 10-34-0 or ammonium sulfate may be used with **Alligare Imazapyr 2 SL** at 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant, methylated seed oil or vegetable oil concentrate. Tank mixes with nitrogen-based fertilizers without a nonionic surfactant, methylated seed oil or vegetable oil concentrate is not recommended.

BRUSH CONTROL

AERIAL APPLICATIONS:
Exercise all precautions to minimize or eliminate spray drift. Fixed wing aircraft and helicopters can be used to apply **Alligare Imazapyr 2 SL**; however, **DO NOT** apply by fixed wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or, if treating open tracts of land where spray drift from fixed wing aircraft application can be tolerated. Aerial equipment designed to minimize spray drift, such as helicopters equipped with a Microfoil™ boom, Thru-Valve™ boom or raindrop nozzles, must be used and calibrated. Unless applying with a Microfoil™ boom, use a drift control agent at the recommended label rate. To avoid drift, **DO NOT** make applications during inversion conditions, when winds are gusty, or during any other conditions that promote spray drift. Side trimming is not recommended with **Alligare Imazapyr 2 SL** unless death of treated vegetation is acceptable.

Uniformly apply **Alligare Imazapyr 2 SL** in 5 to 30 gallons of water per acre. Use a nonionic surfactant, methylated seed oil or silicone-based surfactant (See the **ADJUVANT** section of this label for specific recommendations). An anti-foam agent may be added, if needed.

Thoroughly clean application equipment, including landing gear, by thoroughly flushing with water immediately after using this product. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part. Maintaining painted surfaces may prevent corrosion.

GROUND APPLICATIONS:
To minimize spray drift, select proper nozzles to avoid spraying a fine mist, use pressures less than 50 psi and **DO NOT** spray under gusty or windy conditions (also refer to **SPRAY DRIFT MANAGEMENT** section). Use an anti-foam agent, if needed, and a spray pattern indicator, if desired. Thoroughly clean application equipment after using this product by thoroughly flushing with water. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part.

When making applications to rights-of-way corridors where roots of desirable vegetation may extend, apply 1 to 3 pints of **Alligare Imazapyr 2 SL** per acre in combination with recommended tank-mixes. It is not recommended to use rates higher than 3 pints per acre in such situations as injury or death of desirable vegetation may occur.

Side Trimming: DO NOT side trim with **Alligare Imazapyr 2 SL** unless severe injury or death of the treated vegetation is acceptable. **Alligare Imazapyr 2 SL** is readily translocated and can result in death of the entire tree.

Low Volume: Use equipment calibrated to deliver 5 to 20 gallons of spray solution per acre. Thoroughly mix 0.5 to 5% (v/v) **Alligare Imazapyr 2 SL** in water plus surfactant (See the **ADJUVANT** section of this label for recommendations). Use an anti-foam agent at the recommended rate, if needed. For difficult to control brush species (See **WEEDS CONTROLLED** section for relative susceptibility of weed species), apply the higher concentrations of herbicide and/or spray volumes but **DO NOT** apply more than 6 pints of **Alligare Imazapyr 2 SL** per acre. Excessive wetting of foliage is not recommended. See the **MIXING GUIDE** below for suggested volumes of **Alligare Imazapyr 2 SL** and water.

SUGGESTED TANK-MIXES AND APPLICATION RATES*

Target Vegetation	Rate of Alligare Imazapyr 2 SL	Tank Mix
Mixed hardwoods without elm, locust, or pine	1.0 – 1.5% by volume	Surfactant
Mixed hardwoods containing elm, locust, and pine	0.5 – 1.0% by volume	Accord® at 2 – 3% by volume plus surfactant
Mixed hardwoods with locust and pine but no elm	0.5 – 1.0% by volume	Krenite® at 2 – 5% by volume plus surfactant
Mixed hardwoods with locust and elm but no pine	0.5 – 1.0% by volume	Escort® at 2 oz./Acre or 2.3 grams/gal. plus surfactant

*Tank mixes with products containing 2,4-D have resulted in reduced efficacy of **Alligare Imazapyr 2 SL**.

MIXING GUIDE

% Solution	Amount Alligare Imazapyr 2 SL per Gallon of mix	Amount Alligare Imazapyr 2 SL per 4 Gallon Backpack
0.5%	0.6 oz	2.6 oz
1.0%	1.3 oz	5.1 oz
2.0%	2.6 oz	10.2 oz
3.0%	3.8 oz	15.4 oz
5.0%	6.4 oz	25.6 oz

MEASURING CHART

128 ounces	=	1 gallon
16 ounces	=	1 pint
8 pints	=	1 gallon
4 quarts	=	1 gallon
2 pints	=	1 quart

Application Tips: For low volume applications, select appropriate nozzles to avoid over-applicetion. Proper application is critical to ensure desirable results. Optimum results are achieved when the spray

covers the crown and approximately 70 percent of the plant. The use of a flat fan nozzle tip with a spray angle of 40 degrees or less will aid in proper deposition.

Recommended nozzle tip sizes include 4004E or 1504E. For a straight stream and cone pattern, use adjustable cone nozzles such as 5500 X3 or 5500 X4. Attaching a roll-over valve onto a Spraying Systems Model 30 gunjet or other similar spray guns allows for the use of both a flat fan and cone tips on the same gun.

Proper Spray Pattern: Moisten, but **DO NOT** drench target vegetation. **DO NOT** spray to run-off.

Low Volume with Backpacks: For brush up to 4 feet tall, spray downward to cover approximately 70% of the plant foliage and the crown.

For brush 4 to 8 feet tall, apply a directed spray in a smooth vertical motion from the crown upward on at least two sides of the target vegetation, making sure to cover the crown whenever possible.

For brush over 8 feet tall, apply a directed spray in a smooth zig-zag motion from the crown upward on at least two sides of the target brush.

Low Volume with Hydraulic Handgun Application Equipment: Use same technique as described above for Low Volume with Backpacks.

For broadcast applications, simulate a gentle rain near the top of target vegetation, allowing spray to penetrate the target foliage and contact the crown without run-off onto understory vegetation. **DO NOT** spray to run-off. Herbicide spray that contacts understory vegetation may result in severe injury or death of understory plants.

MIXING GUIDE FOR LOW VOLUME APPLICATIONS

AMOUNT OF SPRAY SOLUTION BEING PREPARED	DESIRED CONCENTRATION (fluid volume)				
	0.5%	0.75%	1.0%	1.5%	5.0%
	(Amount of Alligare Imazapyr 2 SL to use)				
1 gallon	0.6 oz	0.9 oz	1.3 oz	1.9 oz	6.5 oz
3 gallons	1.9 oz	2.8 oz	3.8 oz	5.8 oz	1.2 pints
4 gallons	2.5 oz	3.8 oz	5.1 oz	7.7 oz	1.6 pints
5 gallons	3.2 oz	4.8 oz	6.5 oz	9.6 oz	2 pints
50 gallons	2 pints	3 pints	4 pints	6 pints	10 quarts
100 gallons	4 pints	6 pints	8 pints	6 quarts	5 gallons
2 tablespoons = 1 fluid ounce					

High Volumes: For optimum performance when spraying medium to high density brush, use equipment calibrated to deliver up to 100 gallons of finished spray per acre (GPA). Application volumes exceeding 100 GPA may result in excessive spray run-off, causing injury to desirable ground cover species. Thoroughly mix **Alligare Imazapyr 2 SL** at 2 to 6 pints per acre in water and include a surfactant (See

ADJUVANT section for surfactant recommendations). Use an anti-foam agent according to its label, if needed. For hard-to-control species (See **WEEDS CONTROLLED** section for relative susceptibility of weeds), use the higher concentrations of herbicide and/or spray volumes but **DO NOT** apply more than 6 pints of **Alligare Imazapyr 2 SL** per acre. Uniformly cover the foliage of the target vegetation but **DO NOT** apply to run-off.

TANK MIXES FOR BRUSH CONTROL:
Alligare Imazapyr 2 SL may be tank-mixed with Accord®, Roundup®, Krenite®, Escort®, Telar®, Tordon™ K, Garlon™ 3A, Banvel® and Vanquish® to provide control of **Alligare Imazapyr 2 SL**-tolerant species.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes. Tank-mixing with products that contain 2,4-D may reduce the performance of **Alligare Imazapyr 2 SL**.

INVERT EMULSIONS:
Alligare Imazapyr 2 SL can be applied as an invert emulsion (water-in-oil emulsion) to minimize spray drift and spray run-off, thereby delivering more herbicide to the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Refer to the invert chemical label for proper mixing directions.

CUT STUBBLE:
Alligare Imazapyr 2 SL can be applied within 2 weeks after mechanical mowing or cutting of brush to suppress or control resprouting. Apply **Alligare Imazapyr 2 SL** at 1 to 2 pints per acre to the cut area. **Alligare Imazapyr 2 SL** may be tank-mixed with Tordon™ K to aid in control or suppression of brush. The addition of 5% (v/v) or more of a penetrating agent (surfactant) can aid herbicide uptake through the bark or exposed roots.

Since cut stubble applications are made to the soil and cut brush stumps, ground cover injury may occur. However, vegetation will recover. NOTE that applications of **Alligare Imazapyr 2 SL** directly to the soil beneath desirable trees can result in root uptake and cause injury or death to desirable trees.

To reduce potential root uptake by desirable vegetation, allow target brush to first regrow some foliage, then apply **Alligare Imazapyr 2 SL** to brush foliage. See the **BRUSH CONTROL** section of this label.

STUMP AND CUT STEM TREATMENTS:
Alligare Imazapyr 2 SL may be used to control undesirable woody vegetation on non-cropland by application to the cambium area of freshly-cut stump surfaces or to fresh cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall. **DO NOT** over-apply to cause run-off or puddling of spray solution.

Mixing: Mix **Alligare Imazapyr 2 SL** as either a concentrate or dilute solution for stump and cut stem treatments. Apply dilute solutions to the surface of the stump or to cuts on the stem of the target woody vegetation. Apply concentrate solutions to cuts on the stem. Use of the concentrate solutions permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application directions below to determine proper application techniques for each type of solution.

To prepare a dilute solution, mix 8 to 12 fluid ounces of **Alligare Imazapyr 2 SL** with one gallon of water. If temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be added according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve herbicide uptake through partially callused cambium tissue.

To prepare a concentrated solution, mix 2 quarts of **Alligare Imazapyr 2 SL** with no more than 1 quart of water.

APPLICATION WITH DILUTE SOLUTIONS:
For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Thoroughly wet the entire cambium area (the wood just inside the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Insure that the injector completely penetrates the bark at each injection site.

For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts through the bark around the tree at intervals no more than two inches between cut edges. Spray or brush **Alligare Imazapyr 2 SL** solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS:
For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every 3 inches of Diameter at Breast Height (DBH) on the target tree. For example, a 3 inch DBH tree will receive 1 injection cut while a 6 inch DBH tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts at a downward angle through the bark at approximately equal intervals around the tree. Make at least one cut for every 3 inches of DBH on the target tree as described above, then spray or brush **Alligare Imazapyr 2 SL** solution into each cut until thoroughly wet ensuring that the solution does not run out of the cut.

NOTE: Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.

TOTAL VEGETATION CONTROL IN NON-CROP AREAS WHERE BAREGROUND IS DESIRED

Alligare Imazapyr 2 SL is an effective herbicide for preemergence or postemergence control of many annual and perennial broadleaf and grass weeds in non-crop areas where bareground is desired, including areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, and non-irrigation ditchbanks. **Alligare Imazapyr 2 SL** is particularly effective on hard-to-control perennial grasses. **Alligare Imazapyr 2 SL** can be used alone at 1.5 to 6 pints per acre or in tank-mixes with Roundup®, Finale®, MSMA, Diuron, Karmex®, Pendulum®, Simazine, Banvel®, Vanquish®, or Oust® herbicides. The degree and duration of control are dependent on the rate of **Alligare Imazapyr 2 SL** used, the tank-mix partner, the volume of carrier, soil texture, rainfall and other conditions.

Apply **Alligare Imazapyr 2 SL** at anytime of the year. Use equipment calibrated to deliver desired gallons per acre spray volume and uniformly distribute the spray pattern over the treated area.

Postemergence Applications: Always use a spray adjuvant (See **ADJUVANT** section of this label) in postemergence applications. For optimum performance on hard-to-control annual grasses, apply 100 gallons per acre or less. For quicker burndown of target weeds, tank mix **Alligare Imazapyr 2 SL** with products such as Roundup®, Finale®, or MSMA. Tank mixes with products that contain 2,4-D have reduced performance of **Alligare Imazapyr 2 SL**. Always follow the more restrictive label when tank-mixing.

Spot Treatments: Alligare Imazapyr 2 SL may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation. To prepare the spray solution, thoroughly mix 0.5 to 5% **Alligare Imazapyr 2 SL** plus an adjuvant in a gallon of water. For increased burndown, tank mix with Roundup®, Finale®, MSMA, or similar products. For extended residual weed control or to increase the weed spectrum, add Pendulum® or Diuron (See **TANK MIX RECOMMENDATIONS FOR BAREGROUND**). Always follow the more restrictive label when tank-mixing.

FOR CONTROL OF UNDESIRABLE WEEDS
UNDER PAVED SURFACES

Alligare Imazapyr 2 SL can be used under asphalt, pond liners and other paved areas, but ONLY in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents encroachment of roots from desirable plants.

Alligare Imazapyr 2 SL should only be used where the area to be treated has been prepared according to good construction practices. Before application of **Alligare Imazapyr 2 SL**, rhizomes, stolons, tubers or vegetative plant parts should be removed from the treatment site by scalping with a grader blade to a depth sufficient to insure their complete removal.

IMPORTANT: Paving should follow **Alligare Imazapyr 2 SL** applications as soon as possible. **DO NOT** apply where the chemical may contact the roots of desirable trees or other plants.

This product is not recommended for use under pavement on residential properties such as driveways or parking lots, nor in recreational areas such as under bike or jogging paths, golf cart paths, tennis courts, or where landscape plantings could be anticipated. Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. **NOTE** that roots of trees and shrubs may extend a considerable distance beyond the branch extremities; i.e., drip line.

APPLICATION DIRECTIONS FOR PAVED SURFACES:
Applications should be made to the soil surface only when final grade is established. **DO NOT** move soil following **Alligare Imazapyr 2 SL** application.

Apply **Alligare Imazapyr 2 SL** in at least 100 gal. water per acre to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. Prepare spray solution by thoroughly mixing **Alligare Imazapyr 2 SL** at 6 pints per acre (2.2 fluid ounce per 1000 square feet) into clean water in the spray tank

If the soil is not moist before treatment, **Alligare Imazapyr 2 SL** should be incorporated into the soil to a depth of 4 to 6 inches using a roto-tiller or disc. Rainfall or irrigation of 1 inch will also provide uniform incorporation. **DO NOT** allow treated soil to wash or move from treated areas into untreated areas.

FOR CONTROL OF UNDESIRABLE WEEDS IN

UNIMPROVED BERMUDAGRASS AND BAHIAGRASS

Alligare Imazapyr 2 SL may be used on established Common Bermudagrass, Coastal Bermudagrass and Bahiagrass turf on roadsides, utility rights-of-way and other non-cropland industrial sites to control the weeds listed below. Such treatment of Bermudagrass with **Alligare Imazapyr 2 SL** will result in a compacted growth habit and seedhead inhibition.

Uniformly apply **Alligare Imazapyr 2 SL** with properly calibrated ground equipment using at least 10 gallons of water per acre and a spray pressure 20 to 50 psi.

IMPORTANT: Temporary yellowing of grass may occur when treatment is made after growth commences. **DO NOT** add surfactant in excess of 1 oz. per 25 gallons of spray solution. **DO NOT** apply to grass during its first growing season. **DO NOT** apply to grass that is under stress from drought, disease, insects or other causes.

DOSAGE RATES AND TIMING:
Bermudagrass: Apply **Alligare Imazapyr 2 SL** at 6 to 12 oz. per acre when the Bermudagrass is dormant. Apply **Alligare Imazapyr 2 SL** at 6 to 8 oz. per acre after the Bermudagrass has reached full green-up. Applications made during green-up will delay green-up. Include a surfactant in the spray solution.

For broader spectrum or longer preemergence control of annual grasses and small seeded broadleaf weeds, add Pendulum® herbicide at 3.3 to 6.6 lbs. per acre. Consult the Pendulum® label for weeds controlled and for other use directions and precautions.

For control of Johnsongrass in Bermudagrass turf, apply **Alligare Imazapyr 2 SL** at 8 oz. per acre plus Roundup® herbicide at 12 oz. per acre plus surfactant. For additional control of broadleaves and vines, add Garlon™ 3A to the above mix at 1-2 pints per acre. Observe all precautions and restrictions on the Garlon™ 3A and Roundup® labels.

Bahiagrass: Apply **Alligare Imazapyr 2 SL** at 4 to 8 oz. per acre when the Bahiagrass is dormant or after the grass has initiated green-up but has not exceeded 25% green-up. Include a surfactant in the spray solution (See **ADJUVANT** section for surfactant recommendations).

WEEDS CONTROLLED:

Bedstraw (*Galium* spp.)
Bishopweed (*Ptilimnium capillaceum*)
Buttercup (*Ranunculus parviflorus*)
Carolina geranium (*Geranium carolinianum*)
Fescue (*Festuca* spp.)
Foxtail (*Setaria* spp.)
Little barley (*Hordeum pusillum*)
Seedling Johnsongrass (*Sorghum halepense*)
Wild carrot (*Daucus carota*)
White clover (*Trifolium repens*)
Yellow woodsorrel (*Oxalis stricta*)

GRASS GROWTH AND SEEDHEAD SUPPRESSION

Alligare Imazapyr 2 SL will suppress growth and seedhead development of certain turfgrasses in unimproved areas. When applied to desirable turf, **Alligare Imazapyr 2 SL** may result in temporary turf damage and/or discoloration, depending on environmental conditions. For optimum performance, apply **Alligare Imazapyr 2 SL** before culm elongation, either before or after mowing. If applied before mowing, allow at least three days of active growth before mowing. If following a mowing, allow sufficient time for the grasses to recover before applying **Alligare Imazapyr 2 SL** or injury may be amplified.

DO NOT apply to turf under stress (drought, cold, insect damaged, etc.) or severe injury or death may occur.

Bermudagrass: Apply **Alligare Imazapyr 2 SL** at 6 to 8 oz. per acre from early green-up to prior to seed head initiation. **DO NOT** use a surfactant for this application.

Cool Season Unimproved Turf: Apply **Alligare Imazapyr 2 SL** at 2 oz. per acre plus 0.25% nonionic surfactant. For increased suppression, tank mix **Alligare Imazapyr 2 SL** with products such as Campaign® (24 oz. per acre) or Embark® (8 oz. per acre).

Tank-mixes may increase injury to desired turf. Consult each product label for recommended turf species, use directions and precautions. Tank mixes with products that contain 2,4-D may decrease the effectiveness of **Alligare Imazapyr 2 SL**.

INSTRUCTIONS FOR RANGELAND USE

Alligare Imazapyr 2 SL may be applied to rangeland for controlling undesirable vegetation to achieve one or more of the following vegetation management objectives:

1. To control undesirable (non-native, invasive and noxious) plant species.
2. To control undesirable vegetation to aid in establishing desirable rangeland plant species.
3. To control undesirable vegetation to aid in establishing desirable rangeland vegetation following a fire.
4. To control undesirable vegetation for wildfire fuel reduction.
5. To release existing desirable rangeland plant communities from the competitive pressure of undesirable plant species.
6. To control undesirable vegetation for wildlife habitat improvement.

To ensure the protection of threatened and endangered plants when applying **Alligare Imazapyr 2 SL** to rangeland:

1. Federal agencies must follow NEPA regulations.
2. State agencies must work with the Fish and Wildlife Service or its designated state conservation agencies.
3. Other organizations or individuals must operate under a Habitat Conservation Plan if threatened or endangered plants are known to be present in the area to be treated.

See the appropriate section(s) of this label for specific use directions for the desired rangeland vegetation management objective.

Alligare Imazapyr 2 SL should only be applied to rangeland as specific weed problems arise. Long term control of undesirable weed species ultimately depends on successful land management practices that promote the growth and sustainability of desirable rangeland plant species.

Grazing and haying restrictions: There are no grazing restrictions following **Alligare Imazapyr 2 SL** application. **DO NOT** cut forage grass for hay for seven days after **Alligare Imazapyr 2 SL** application.

ROTATIONAL CROP INSTRUCTIONS

Rotational crops may be planted twelve months after **Alligare Imazapyr 2 SL** application at the recommended pasture and rangeland rates. To avoid damage to crops planted in these areas, and to ensure complete **Alligare Imazapyr 2 SL** dissipation in treated sites, a field bioassay should be conducted before planting to crops. To conduct a field bioassay, grow to maturity test strips of the crop(s) intended for planting the following year. The test strips should cross the entire field including knolls and low areas and include variations in soil type and pH within the treated area. Crop response to the bioassay will indicate whether or not to plant the crop(s) grown in the test strips.

Use of **Alligare Imazapyr 2 SL** in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: DO NOT store below 10°F.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable containers (1 quart, 1, 2.5 and 30 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable < 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Refillable container (250 gallon & bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Deleted: FOR 2.5 GALLON AND 30 GALLON

Deleted: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in an approved sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.¶
CONTAINER DISPOSAL FOR BULK: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase, or to a designated location. This container must only be refilled with the pesticide product. **DO NOT** reuse the container for any other purpose. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of container must be in compliance with state and local regulations.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

IMPORTANT: Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitation of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Banvel and Pendulum are registered trademarks of BASF.
Microfoil is a trademark of Rhone Poulenc Ag. Company.
Thru-Valve is a trademark of Waldrum Specialties.
Accord, Campaign and Roundup are registered trademarks of Monsanto Company
Escort, Karmex, Krenite, Oust and Telar are registered trademarks of E.I. DuPont de Nemours and Company.
Garlon and Tordon are trademarks of Dow AgroSciences Company.
Embark is a registered trademark of PBI/Gordon Corporation.
Finale is a registered trademark of Bayer.

Vanquish is a trademark of a Syngenta Group Company.

EPA 20080414

Please Read All Instructions Before Completing this Form *(Form must be typed)* Form Approved. OMB No. 2070-0044. Approval Expires 1-31-95

EPA

United States
Environmental Protection Agency
Office of Pesticide Programs (7505C)
Washington, DC 20460-0001

10A 4.2

Notice of Supplemental Distribution of a Registered Product

Instructions

After a registrant has obtained registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationary, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product	Distributor Company Number
81927-23	**53883**

Note; Do not submit distributor product labels

Name of Registered Product (*basic product name accepted by EPA*)	Distributor Product Name
Alligare Imazapyr 2 SL	**Pramitol brand** **TVC Total Vegetation Control**

Name and Address of Distributor (*Type: include ZIP code*)

Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

Read All Conditions Before Signing

1. The distributor product must have the same composition as the basic product.
2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
4. The product must remain in the manufacturer's unbroken container.
5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor: J F Blake — Director, Regulatory Affairs

Date: 4/15/2008

Registrant

I agree that the distributor named above may distribute and sell the distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant: [signature]

Date: 4/23/08

EPA Form 8570-5 (Rev. 8-94) Previous editions are obsolete. White - EPA

*U.S. GPO: 1988-432-472/61004